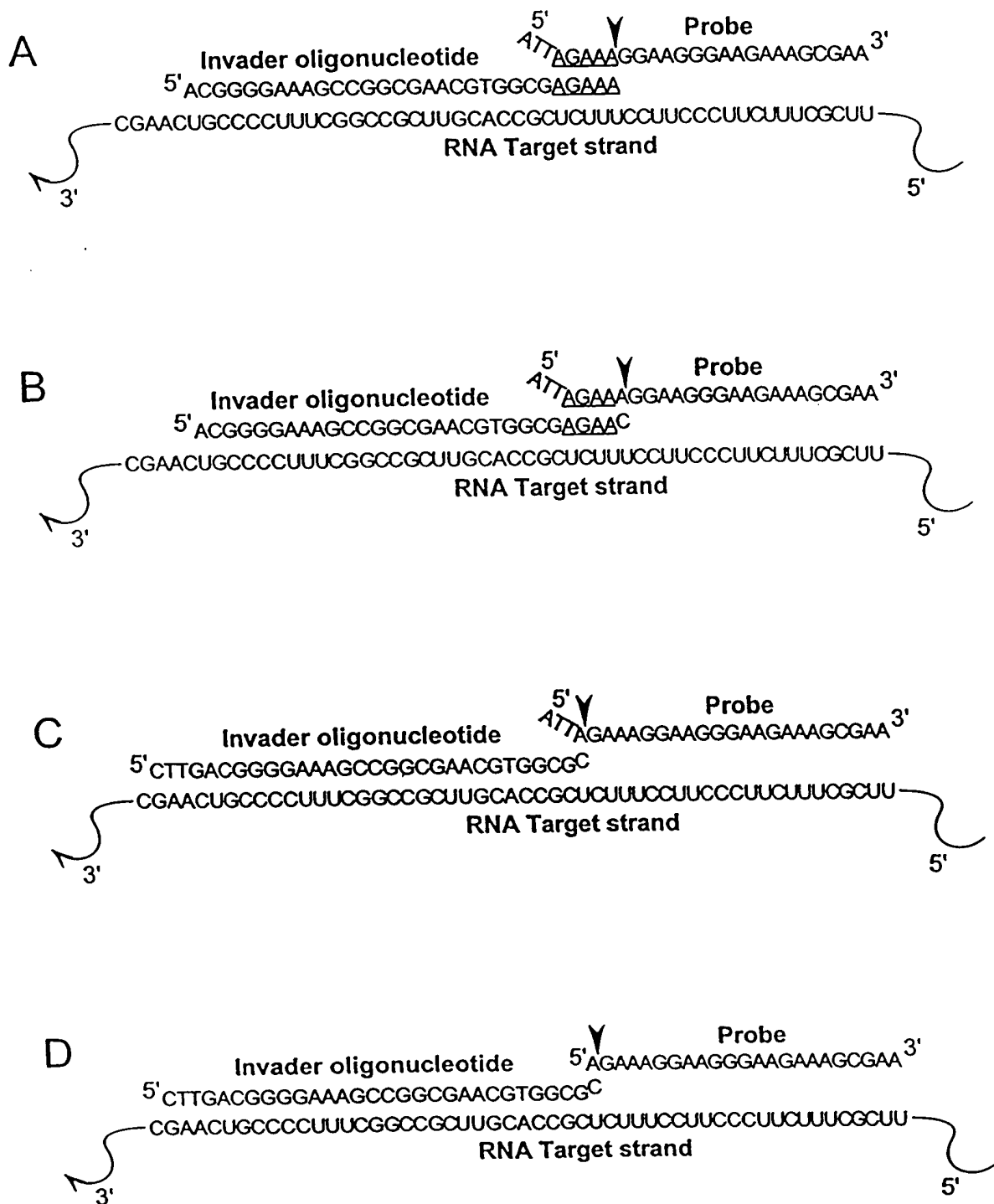


FIGURE 1

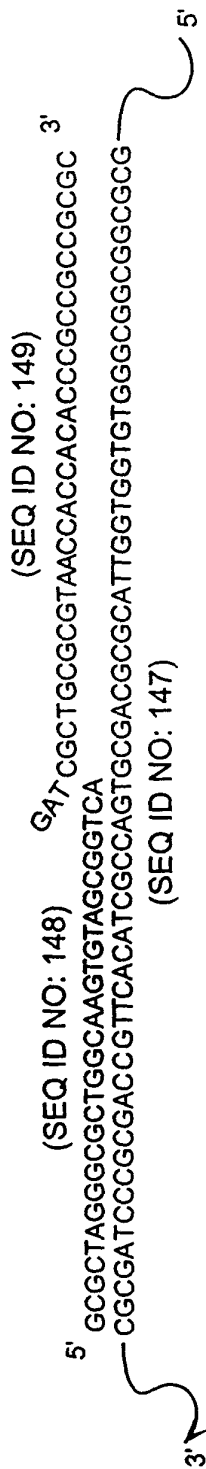


FIGURE 2





A



B

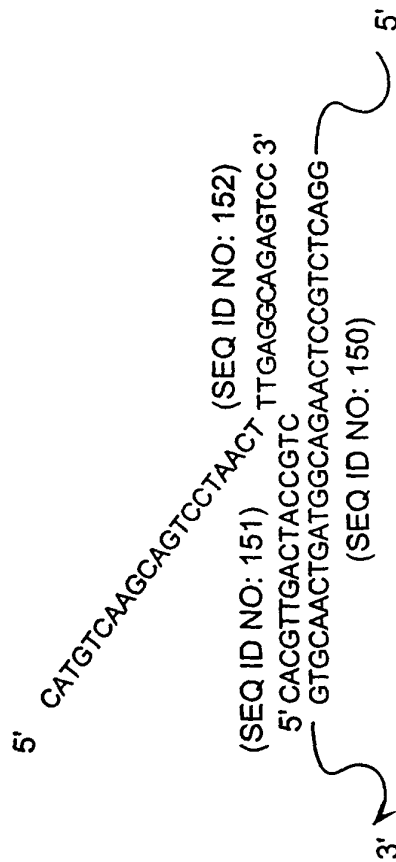


FIGURE 3

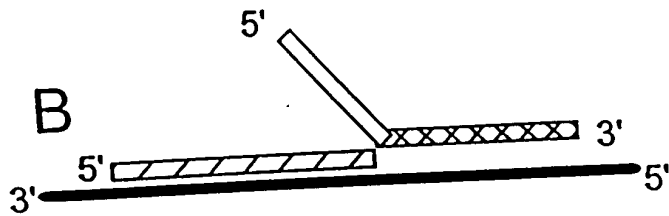
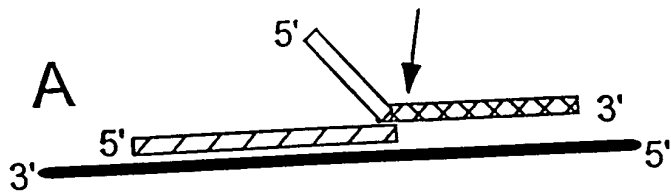


FIGURE 4

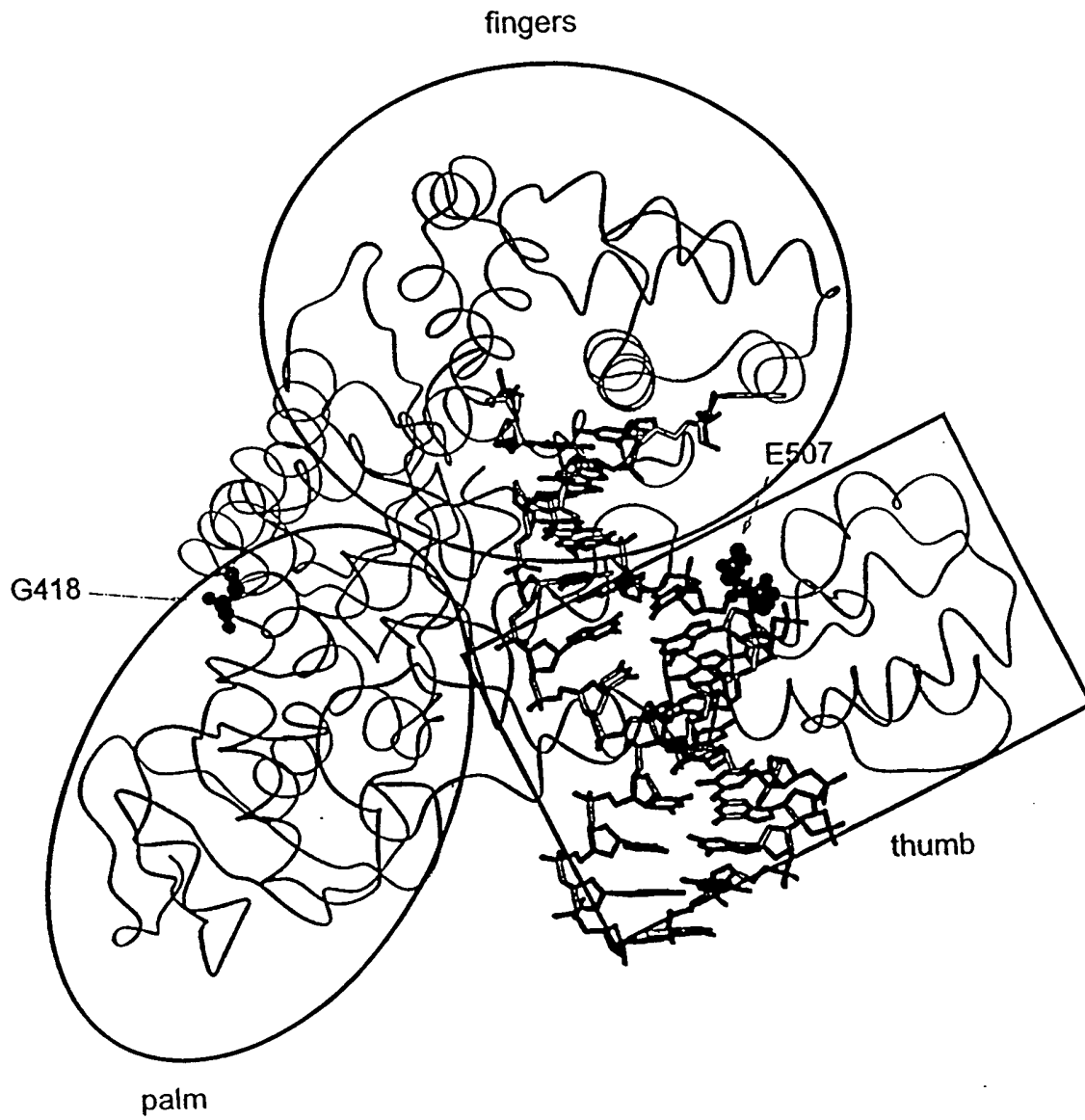


FIGURE 5

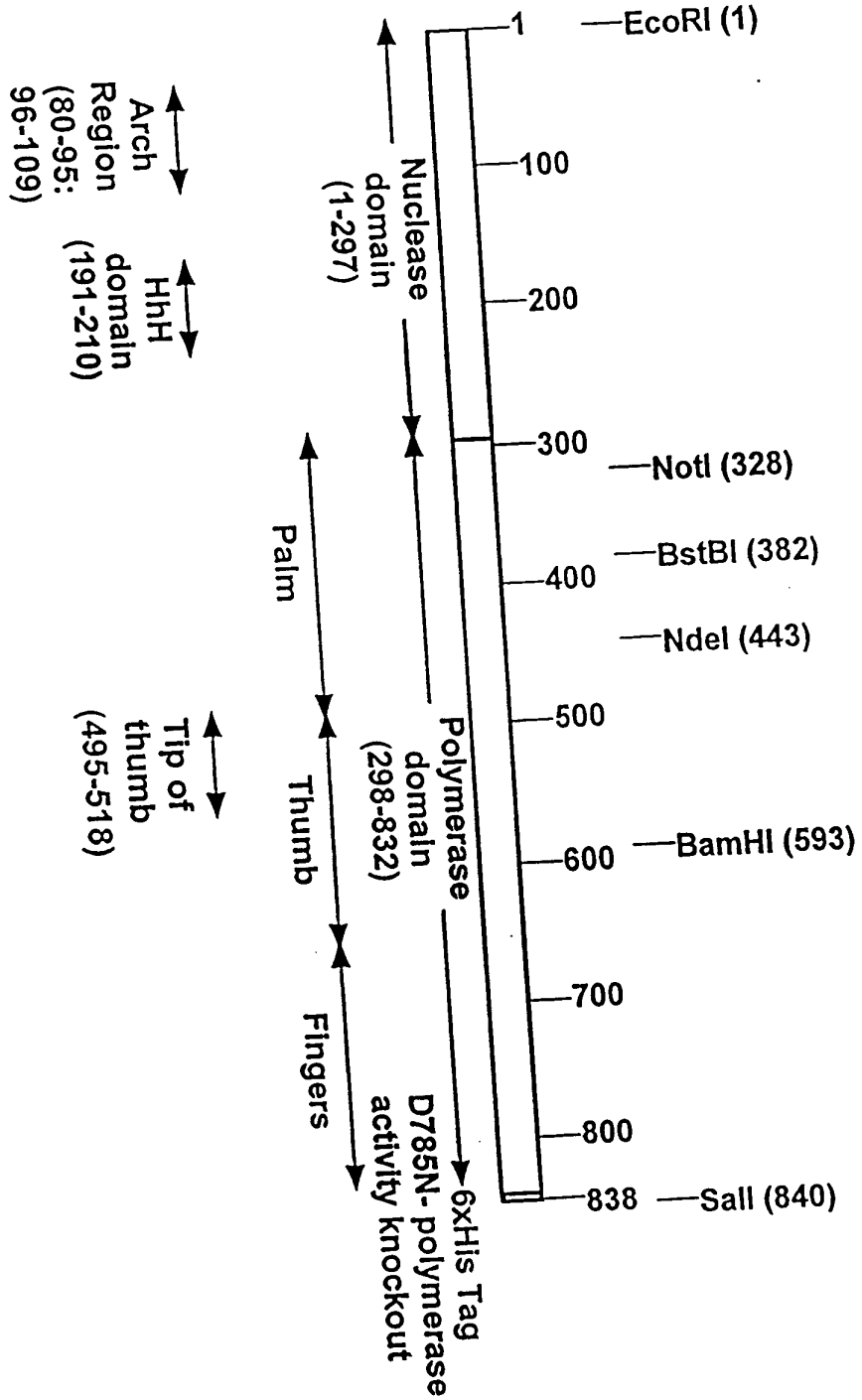


FIGURE 6

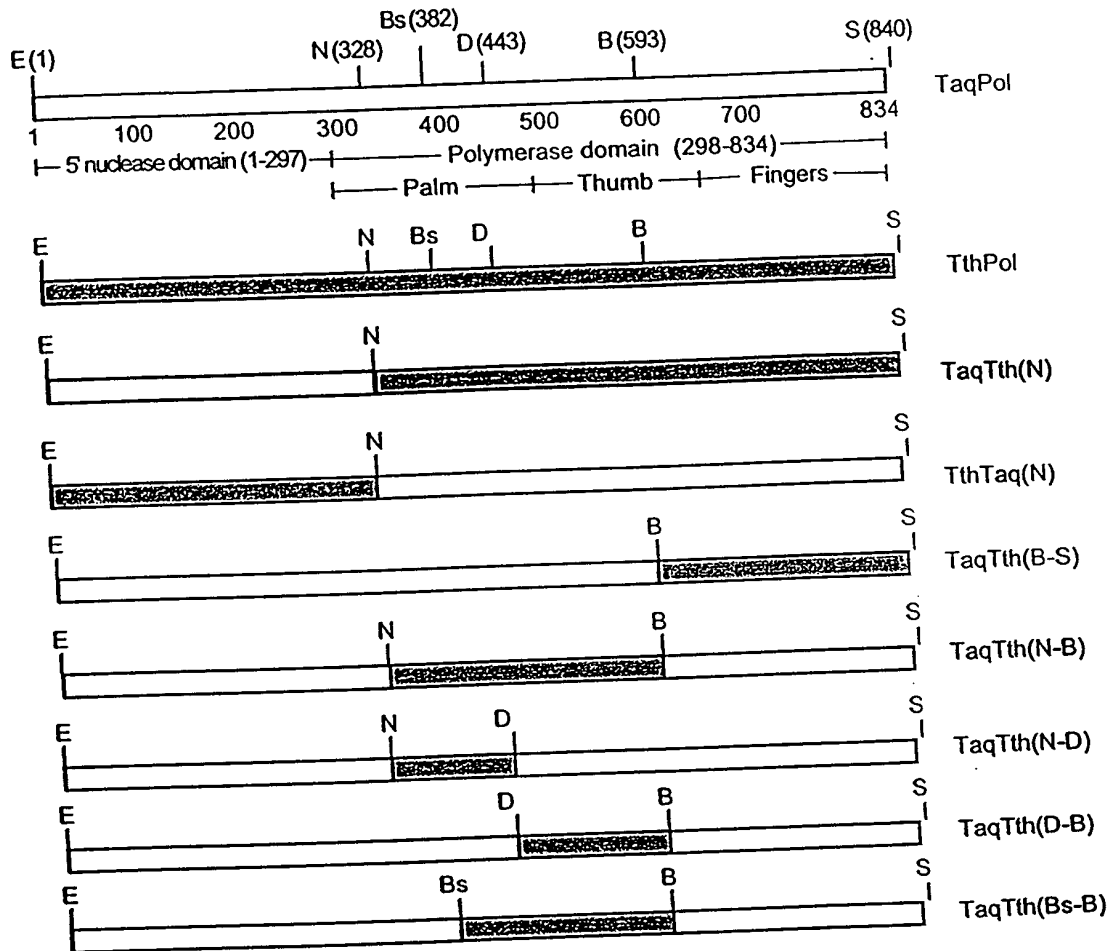


FIGURE 7



FIGURE 8B

MAJORITY [SEQ IDNO:156] CGAGGGGGACGAGGTCTGGCCACCTGGCCAAAGAGCGGAAAGCGAGGGGTACGAGGTGGGCATCCTC

[illegible]

MAJORITY ACCGGCGACGGCGAGCTCTACGAGCTCCTTCCGACCGCATCGCGCTCTCCAGCCCGAGGGGTACCTCA

DNAPIAQ	AAA.	T.			CA.		487
DNAPIFL	T.			G. G.	A.	T.	484
DNAPTTH			A.	G. G.	G.	CC.	490

MAJORITY TCACGGCGGGCGTGGCTTTGGGACAAGTACGGCCTGAGGGCCGACGAGTGGGTGGACTACGGGGCCCTGGG

.....	C.	A.	C.	C.	CC.	A.	557
DNAPTAQ							
.....		AC.	C.	C.			554
DNAPFL							
.....	A.		C.		T.	C.	560
DNAPTH							

MAJORITY CCGGGAGCGGCTCGGACAAGCTCCCGGGGGCTCAAGGGCATCGGGGAGAAAGCGGGCGCGXGAAAGCTCCTCXAG

DNAPTAQ	C.....GAG.....T.....GAG.....T..GG..	627
DNAPTFLG..T..A.....G.....A..G.....A..CGC	624
DNAPTHTC.....TC.....A..	630

MAJORITY GAGTGGGGGAGCGCTGGAAACCTCCTCAAGAACCTGGACCGGTGAAGCCCGC...CTTCCGGGAGAAGA

DNAPTAQ	GC.	C.	A.	694
DNAPTFL	T. C. C.	A.	T. G.	691
DNAPTTH	A.	A.	A. AAAA. G.	700



FIGURE 8C

MAJORITY [SEQ ID NO:150] TCGAGGGCCACATGGAXGAGCTGAXGGCTCTCCTGGGAGCTXTCGAGGCTGCGCACCGACCTGCCCCCTGGA

DNAPTAQ [SEQ ID NO:153]...T...G...T...A...G...G...A... 764
DNAPTFL [SEQ ID NO:154]...GGG...G...G...T...A...T... 761
DNAPTTH [SEQ ID NO:155]...A...C...A...G...G...C... 770

MAJORITY GGTGGAGCTTCGCCAAGXGGGGGAGCCCGGAGGGGCTTAGGGCCCTTCTCGAGAGGCTGGAGTTT

DNAPTAQAA.....A.....T..... 834
DNAPTFLGG.G.C.C.CACA...A...T.....T...GC...T...T...C..T..... 831
DNAPTTHG.....G.....G.....G.....C.....C..... 840

MAJORITY GGCAGGCTCCTCCAGGAGTTGGGGCTCCTGGAGGGGGCCGCAAGGCCCTGGAGGAGGGCCCCCTGCCCCCGGG

DNAPTAQT.....AA..... 904
DNAPTFL ..A.....G.....G...G...GCCA.....T... 901
DNAPTTHG.....C.....GCCG..... 910

MAJORITY CGGAAGGGGCTTCGTGGGCTTTGTGCTTTCCCGGGGGGAGGCCCATGTGGGGGGGAGGCTTCTGGGGCTGGG

DNAPTAQG.....AAG.....T..... 974
DNAPTFLT..TT.....TC.T.....T..... 971
DNAPTTHG.....C.....G.....AAA..... 980

MAJORITY CGCGGGCAGGGGCGGGGCTCCAGCGGGGACACAGACCCCTTTAXGGGGCTXAGGGGACCTXAAGGAGGTG

DNAPTAQG.....G...C...G...T.A..AA.C...G.....G.....C. 1044
DNAPTFL T.GG..GT.....G..CC...T.....A.....G...G...G...T...G... 1041
DNAPTTHTG.....G.....G.....GGG...G..A.A.....C.....C 1050



FIGURE 8D

MAJORITY [SEQ ID NO:156] CCGGGXCTCCTCGGCAAGGACCTGGCCGTTTTGGCCCTGAGGGAGGGCCCTXGACCTCXTGCCCGGGGACG

DNAPTAQ [SEQ ID NO:153]G..T.....A.....AG.....C.....A.....T..G....CC.....C..... 1114
DNAPTFL [SEQ ID NO:154]AA.....G.....G.....C.....G.....T..G....A..A.....T..G....A..A..... 1111
DNAPTTH [SEQ ID NO:155]C.....C.....C.....TC.....G..A.....G.....G.....G..... 1120

MAJORITY ACGGCAATGCTGCTGGCTAGCTGCTGGACCCCTGCAACACCCAGCCCGGAGGGGGTGGCCCGGGGCTACGG

DNAPTAQT.....T..... 1184
DNAPTFLG.....T.....T.....T.....T..... 1181
DNAPTTHT.....T.....G.....G..... 1190

MAJORITY GGGGGAGTGGACGGAGGGAXGGGGGGGAGCCGGCCCTCCTXTCGGAGAGGGCTCTTCGXGAACCTXXXGGAG

DNAPTAQG.....G.....CC...T.....GGC.....GTG...G. 1254
DNAPTFLT.....A.....GG.....C..C.....A..G....AAA.... 1251
DNAPTTHG..G..G..G.....C..G.....CAT..G.....CCTTA.. 1260

MAJORITY CCGCTTGAGGGGGAGGAGAGGCTCCTTTGGCTTTACGAGGAGGTGGAGAGCCCTTTCCCGGGTCCCTGG

DNAPTAQG.....G.....G.....G.....GCT..... 1324
DNAPTFLA....A..A..AC..C..G.....G.....G.....GT... 1321
DNAPTTHG.....A.....G.....C.....A.....C..... 1330

MAJORITY CCGACATGGAGCCGACGGGGGTXCGGGCTGGACGTGGCCTACCTCGAGGCCCTXTCCTCGAGGTGGCGGA

DNAPTAQG..C.....G.....T...AG....T..G.....C.. 1394
DNAPTFLGG.....C.....C.....C.....A..C 1391
DNAPTTHC.....C.....A.....T.....T.....C..T..... 1400



FIGURE 8E

MAJORITY [SEQ ID NO:150] GGAGATCGGGGGCTGGAGGAGGAGGTCTTCGGCTGGCGGGCCACCCCTTCAACCTCAACTCCCGGGGAG 1464
DNAPTAQ [SEQ ID NO:153].....GC.....CC..... 1461
DNAPTFL [SEQ ID NO:154].....G.G....AG..G.....C..... 1470
DNAPTTH [SEQ ID NO:155].....T.....G..... 1470

MAJORITY CAGCTGGAAGGGTGCTCTTTGACGAGCTXGGGCTTCCGGCCATCGGCAAGACCGGAGACXGGGCAAGC 1534
DNAPTAQC.....A.....C..... 1531
DNAPTFLGC.....G.C..G..T.....G..G..A.. 1540
DNAPTTHTA.....T.G..G.....C.A.....A..... 1540

MAJORITY GCTGCACACGGCGCGCTGCTGGAGGGCTXCGXGAGGGCCACCCCATCGTGGAGAAGATCGTGCAGTA 1604
DNAPTAQC.....C..C..... 1601
DNAPTFLT.....G..A.....CGGC..... 1610
DNAPTTHG.....A..G.....C.....G..... 1610

MAJORITY CCGGGAGCTCACCAGCTCAAGAACACCTACATXGACCGCGCTGGCGXGCGCTCGTCCACCCGAGGAGCGGGC 1674
DNAPTAQG....G.....T.....G.A....A..... 1671
DNAPTFLA.....C.C..G.....A..C... 1680
DNAPTTHG.G.....C..AAG.....G..... 1680

MAJORITY CCGCTGCACACCGCGCTCAACGACAGCGGGCCAGGGGCGGCTAGTAGCTCCGACCCCAACCTGC 1744
DNAPTAQA.....T.....C. 1741
DNAPTFLG.....C.....TCC..... 1750
DNAPTTHG..... 1750



FIGURE 8F

MAJORITY [SEQ ID NO:156] AGAACATCGCCGTCGGCAGCCGCTGGCCAGAGGATCGGGCGGGGCTTCGTGGCCGAGGAGGXTGGGT

DNAPTAQ [SEQ ID NO:153].....G..T..G.....A..C.....G...C. 1814

DNAPTFL [SEQ ID NO:154].....G.....T.....C.C.....A.....C.... 1811

DNAPTTH [SEQ ID NO:155].....GT.....CT.....C.....T....C 1820

MAJORITY GTTGGTGGCCCTGGACTATAGCCAGATAGAGCTCCGGGTGCTGGCCACCTCTCCGGGGAGGAGAACCTG

DNAPTAQ A.....T.....A.....G.....C..... 1884

DNAPTFL C.....T.....C.....T.....T.....A..... 1881

DNAPTTHT.....C.....G.....A..... 1890

MAJORITY ATCGGGGTCTTCAGGAGGGGAGGACATCCACACCCAGAGCGGCGAGCTGGATGTTCCGGCGTCCCCCGG

DNAPTAQC.....GG.....G... 1954

DNAPTFLT.....A.....TT...C. 1951

DNAPTTHA.....A..... 1960

MAJORITY AGGGCGTGGACGGCGCTGATGGCGGGGGCGGCAAGACCATCAACTTCGGGGTCTCTACGGGATGTCCGG

DNAPTAQG... 2024

DNAPTFL A.GG..A....T.....GG..G.....G..... 2021

DNAPTTHGG..G.....C..... 2030

MAJORITY CCAGCGCCTCTCCAGGAGCTTCCCATCCCGTACGAGGAGGGGTGGCCTTCATTGAGCGCTACTCCAG

DNAPTAQA.....T.....CCA.....T... 2094

DNAPTFLGG.....T.....T.....A..... 2091

DNAPTTH ...TA.G.....T.A.....A 2100



FIGURE 8G

MAJORITY [SEQ ID NO:156] AGCTTCCCGAAGGTGGGGGGCTGGATTGAGAAAGACCCCTGGAGGAGGGGAGGAGGGGGGGGTACGTTGGAGA

DWAPTAQ [SEQ ID NO:153]..... 2164
DWAFTL [SEQ ID NO:154].....A.....GG.....C.....C.CC.....T..... 2161
DWAFTH [SEQ ID NO:155].....A.A.....G.....A.....C.....A. 2170

MAJORITY CCCTCTTGGGGGGGGGGGGCTAGGTGGGGGGAGCTCAAGGGGGGGGGGTGAAGAGCCGTGGGGGGAGGGGGGGGA

DWAPTAQC.....A.....AG.C.....C.. 2234
DWAFTLT.....C.....C..... 2231
DWAFTHAA.AA.....CA.....C..... 2240

MAJORITY GCGCATGGGCTTGAACATGGGCTCCAGGGGACCGGGGGGAGCTCATGAAGCTGGCCATGGTGAAGCTC

DWAPTAQT..... 2304
DWAFTLG.....GG...T 2301
DWAFTHC.....C..... 2310

MAJORITY TTCCCGGGGCTXCAGGAAATGGGGGGCCAGGATGCTGCTXCAGGTCGACGAGGCTGCTCCTCGAGGGGG

DWAPTAQA...GG.....T..... 2374
DWAFTLT.....C.....G.....TT.G.....G..... 2371
DWAFTHC..C.G..G.....C.C.....C.....GG...G..... 2380

MAJORITY CCAAGAGCGGGGGGAGGXXGGTGGGGGGCTTGGGGCAAGAGGCTCATGGAGGGGGGTCTATCCCGTGGGGGT

DWAPTAQA.....CG.....GGG.....G..... 2444
DWAFTLG..C.....AG...A.....GG.....CAG.. 2441
DWAFTHC..C.....C.....A.....G.....AA..C.....C..... 2450

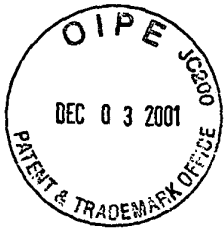


FIGURE 8H

MAJORITY [SEQ ID NO:156] GCGCCCTGGAGGTGGAGGTGGGGATGGGGGAGGACTGGCTGTGGGGCCAGGAGTAG

DNAPTAD [SEQ ID NO:153]A.....GA
DNAPTFL [SEQ ID NO:154]CC.....
DNAPTTH [SEQ ID NO:155]T.....GT....

2499
2496
2505



FIGURE 9A

MAJORITY [SEQ ID NO:159] MXAMLPLFEPKGRVLLVDGHHLAYRTFFALKGLTTSRGEPUQAVYGFAKSLLKALKEDG-DAVXVVVFDK

TAQ PRO [SEQ ID NO:157].RG.....H.....I..... 69
TFL PRO [SEQ ID NO:158].....V.V..... 68
TTH PRO [SEQ ID NO:1] E.....YK..F..... 70

MAJORITY APSFRHEAYEAYKAGRPTPEDFPRQLALI KELVDLLGLXRLEVPYCGYEADDVLATLAKKAEKEGYEVRI L

TAQ PROGG.....A.....S..... 139
TFL PROV.....F.....R..... 138
TTH PROFT..... 140

MAJORITY TADRDLYQLLSDRI AVLHPEGYLITPAWLWEKYGLRPEQWVDYRALXGDPDSNLPGVKGI GEXTAKLLX

TAQ PROK.....H.....D..A.....T..E.....R...E 209
TFL PROE...I.....Y.....A.....I.....QR..R 208
TTH PROV...V.....H...E.....F...V.....L...K 210

MAJORITY EWGSLNLLKNLDRVKP-XXREKIXAHMEDLXL SXXLSXVRTDLPLEVDFAXRREPDRGLRFLERLEF

TAQ PROA.....L...AI....L...D...K...WD.AK.....K.....R..... 278
TFL PROFQH..Q...SL...IQ.G..A.A..RK..Q.H.....GR..T.NL..... 277
TTH PROENV....K..L...R..LE..R.....L.QG..... 280

MAJORITY GSLLHEFGLLXPKALEEAPWPPPEGAFVGFVLSRPEPMWAEALLAAXGRVHRAXDPLXGLRDLKEV

TAQ PROS.....K.....D.....G.....PE.YKA.....A 348
TFL PROG...A.....L..SF.....G.WE..L...O...R.....G. 347
TTH PROA.AP.....K....C.D.....A...A..K..... 350



FIGURE 9B

MAJORITY [SEQ ID NO:159]RGLLAKDLAVLALREGLDLPXGDDPML LAYLLDPSNTTPEGVARRYGGWTEADAGERALLSERLFXNLXX

TAQ PRO [SEQ ID NO:157].....S.....G.P.....E.....A.....A.....WG 418
TFL PRO [SEQ ID NO:158].....I.....F.E.....A.....QT.KE 417
TTH PRO [SEQ ID NO:1].....S.....V.....AH.....HR..LK 420

MAJORITY RLEGEERLLWLYXEVEKPLSRVLAHMEATGVRLDVAYLQALSLEVAEEIRLEEEVFRLAGHPFNLNSRD

TAQ PROR...R...A.....R.....A.....A.....488
TFL PROK.....E.....R.....EA.V.Q.....487
TTH PROK.....H.....L.....490

MAJORITY QLERVLFDELGLPAIGKTEKTKRSTSAVLEALREAHPIVEKILOYRELTCLKNTYIDPLPXLVHPRTG

TAQ PROD.I.....558
TFL PRODR.....A.....K..557
TTH PROR...L...Q.....H.....V.....S.....560

MAJORITY RLHTRFNOTATATGRLLSSSDPNLQNI PVRTPLGORI RRAFVAEEGWXLVALDYDYSQIELRVLAHLSGDENL

TAQ PROL.....L.....628
TFL PROV...V.....627
TTH PROA...A.....630

MAJORITY IRVFOEGRDIHTQTASWMFGUPPEAVDPLMRRAAKTI NFGVLYGMSAHLRSQELAI PYEEAVAFIERYFO

TAQ PROE.....R.....Q.....698
TFL PROS..G.....G..S.....697
TTH PROK.....V.....700



FIGURE 9C

MAJORITY [SEQ ID NO:159]SFPKVRAWI EKTLEEGRRRGYVETLFGRRRYVPDLNARVKSUREAAERMAFNMPVGGTAADLMK LAMVKL

TAQ PRO [SEQ ID NO:157].....E..... 768
TFL PRO [SEQ ID NO:158]Y.....G.....R. 767
TTH PRO [SEQ ID NO:1].....K..... 770

MAJORITY FPRLEXMGARM LQVHDELVL EAPKXBAEXVAALAKEVMEGVYPLAVPLEVEVGXGEDWLSAKEX

TAQ PROE.....E...A..R.....I..... 833
TFL PROQ..L.....D...R.....W..Q.....L..... 831
TTH PROR.....L....QA...E.....A..KA.....M.....G 835

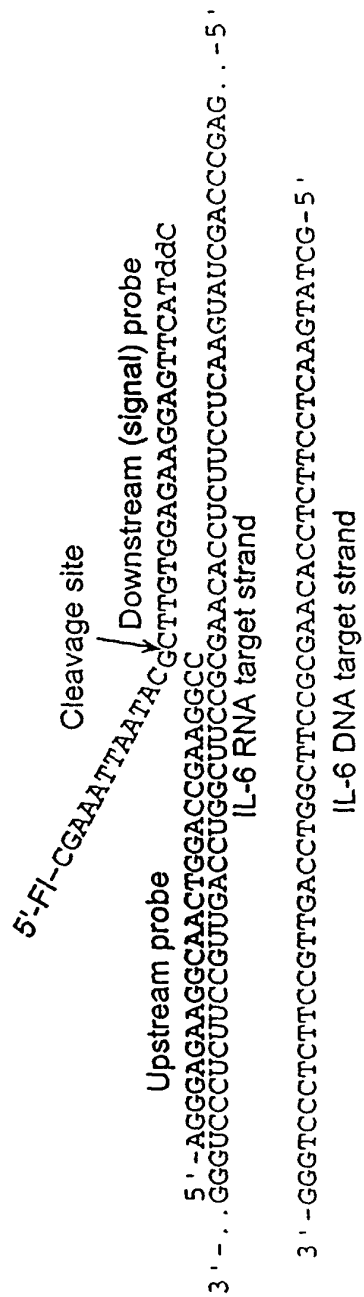
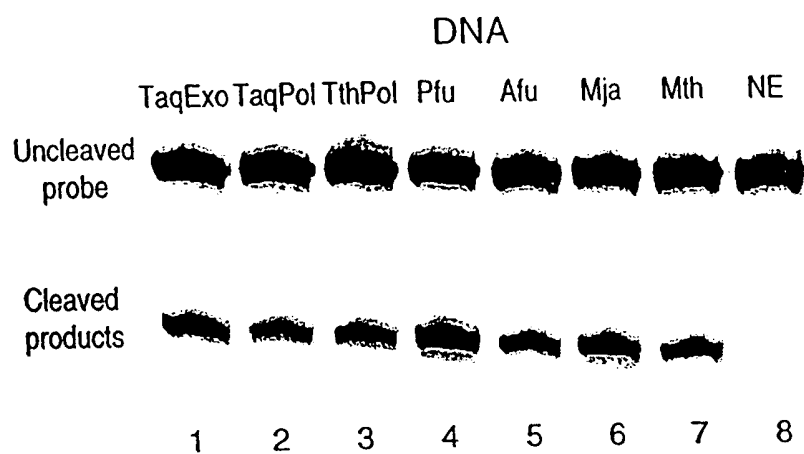


FIGURE 10



A



B

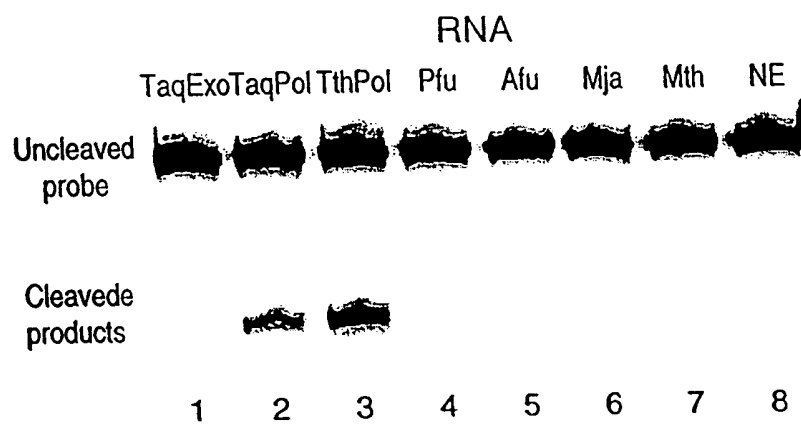


FIGURE 11

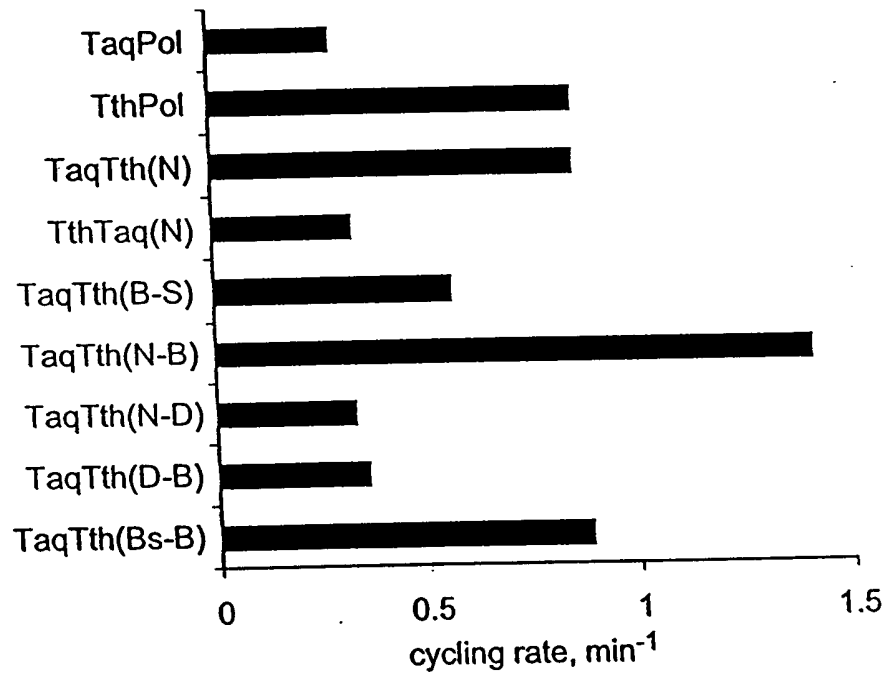


FIGURE 12

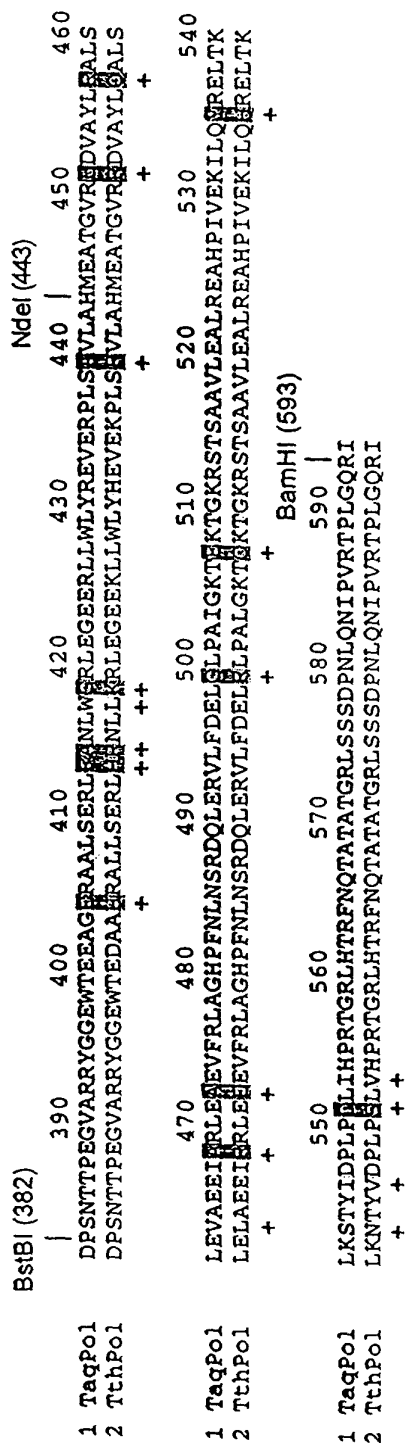


FIGURE 13

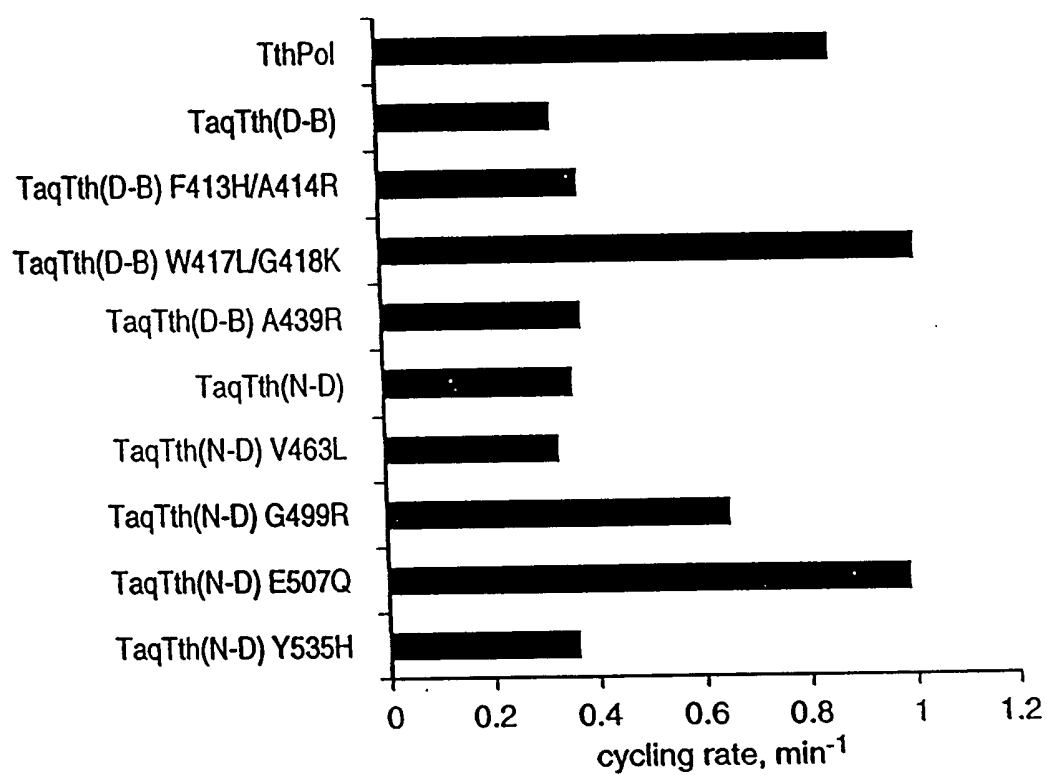


FIGURE 14

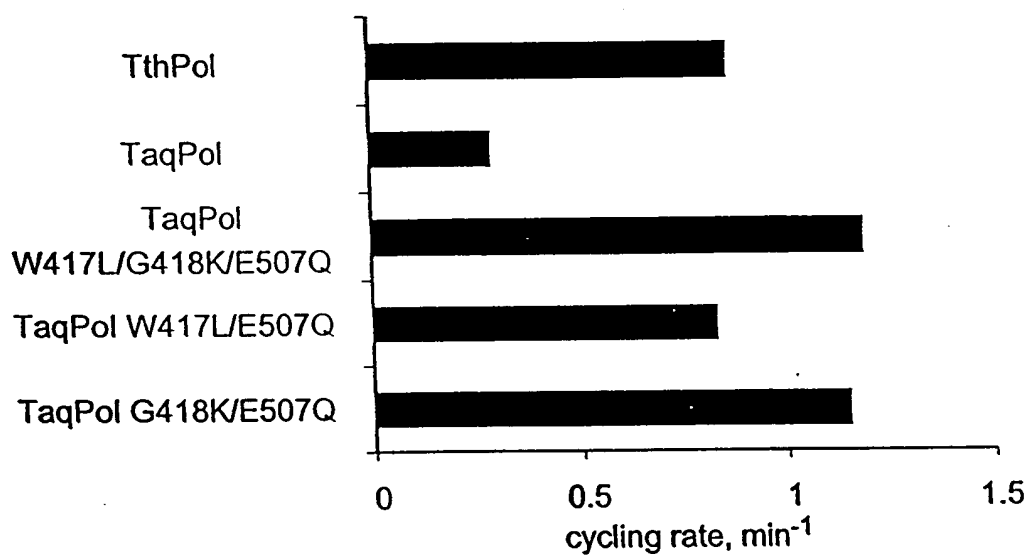


FIGURE 15









		Polymerase Activity Assays	
		<u>% Fl-labeled dUTP incorporated</u>	
		<u>RNA, p(A) or DNA, p(dA) Template</u>	
	Nuclease Domain Polymerase Domain		
Tth		5.8 (1.00)	14.8 (1.00)
Taq		0.8 (0.14)	15.0 (1.01)
TaqTth(N)		4.88 (0.84)	12.9 (0.87)
TaqTth(N-B)		0.58 (0.10)	13.3 (0.90)
TaqTth(B-S)		6.60 (1.14)	14.9 (1.01)
Taq(W417L/G418K/E507Q)		0.42 (0.07)	12.6 (0.85)

FIGURE 16



FIGURE 17

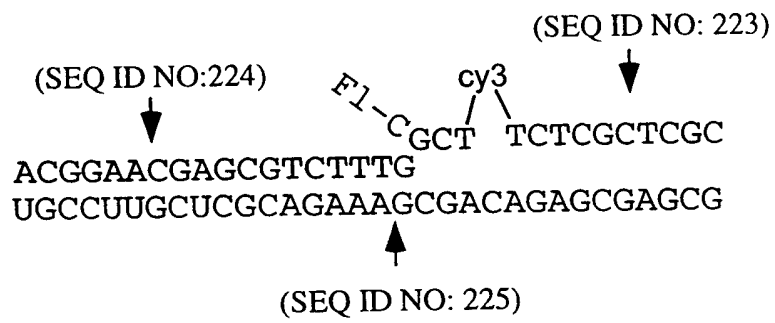


FIGURE 18A

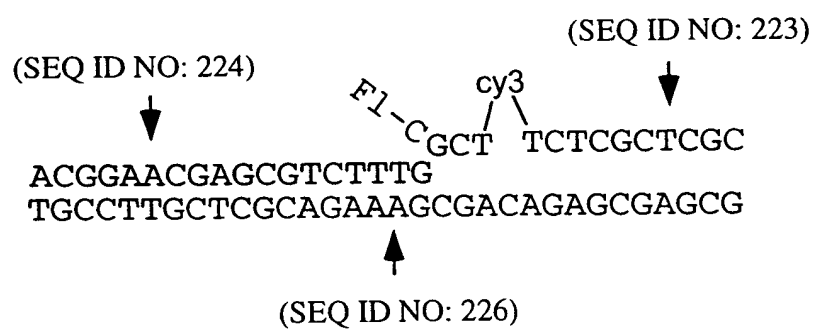


FIGURE 18B

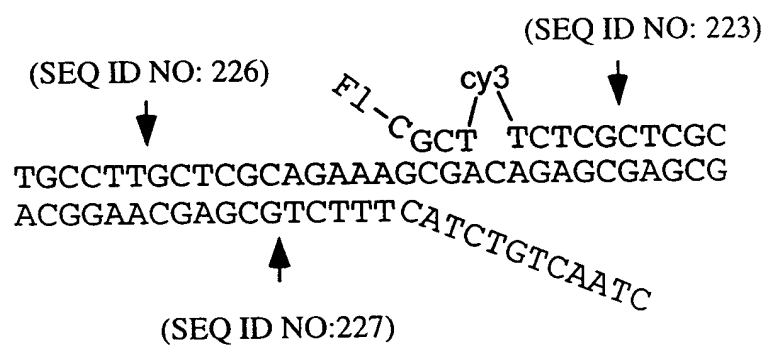


FIGURE 18C

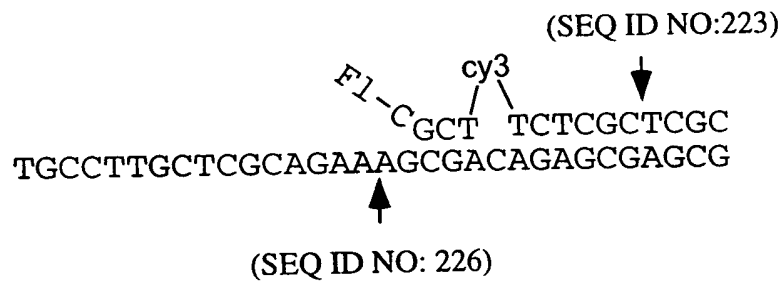


FIGURE 18D

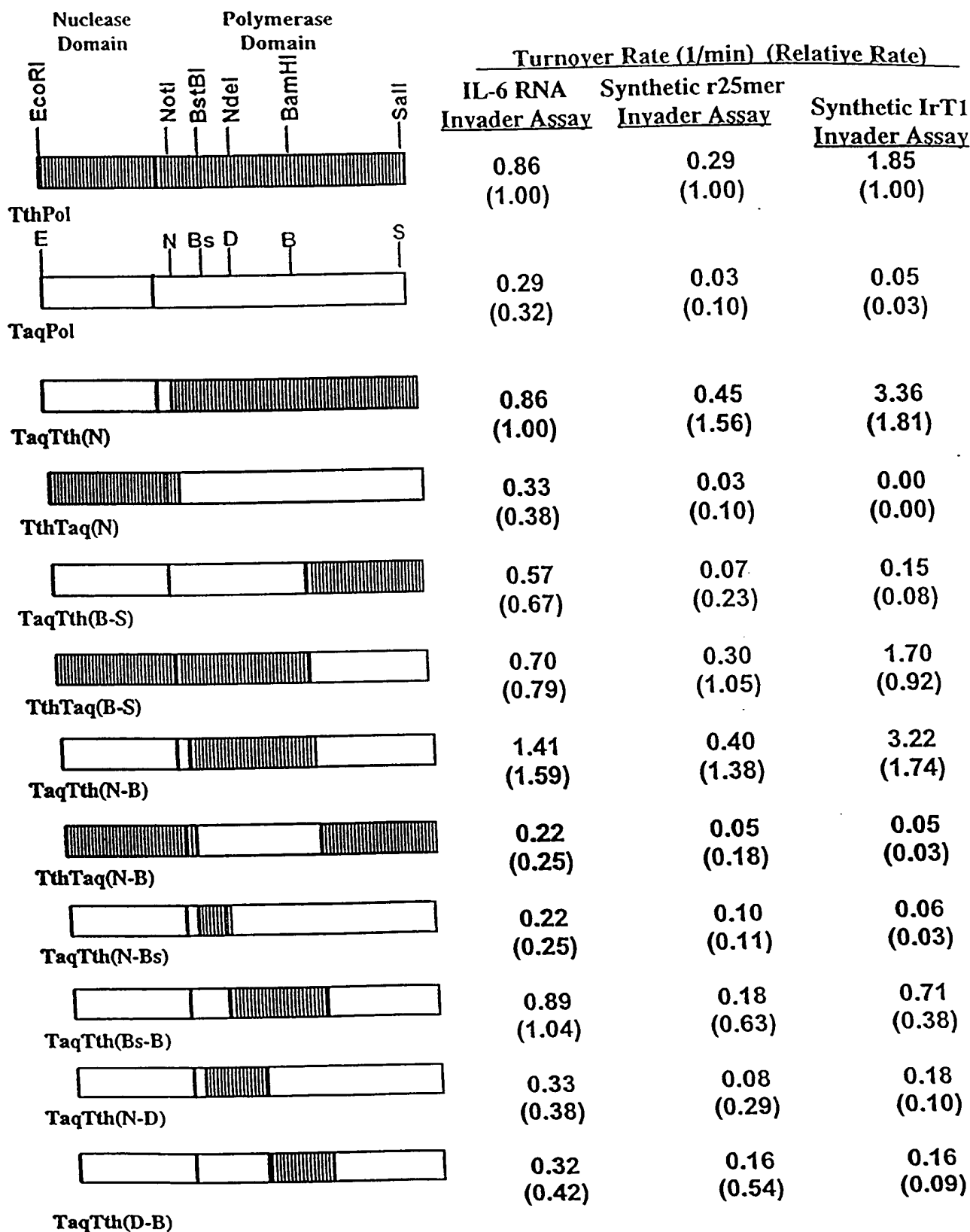


FIGURE 19

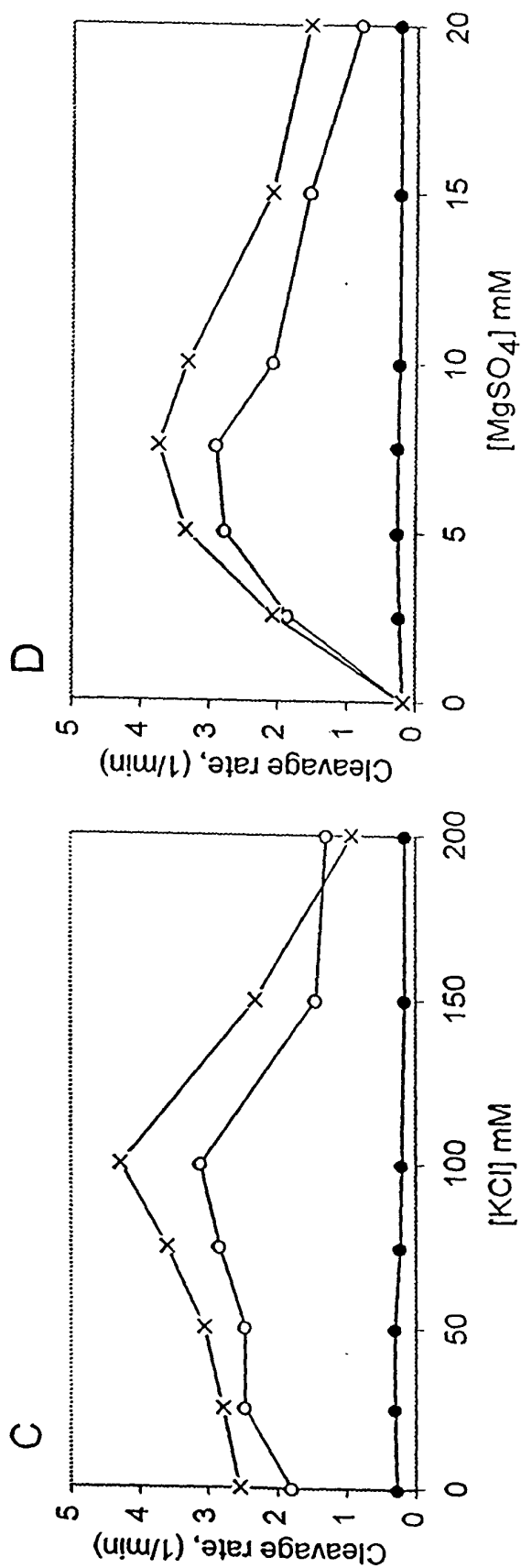
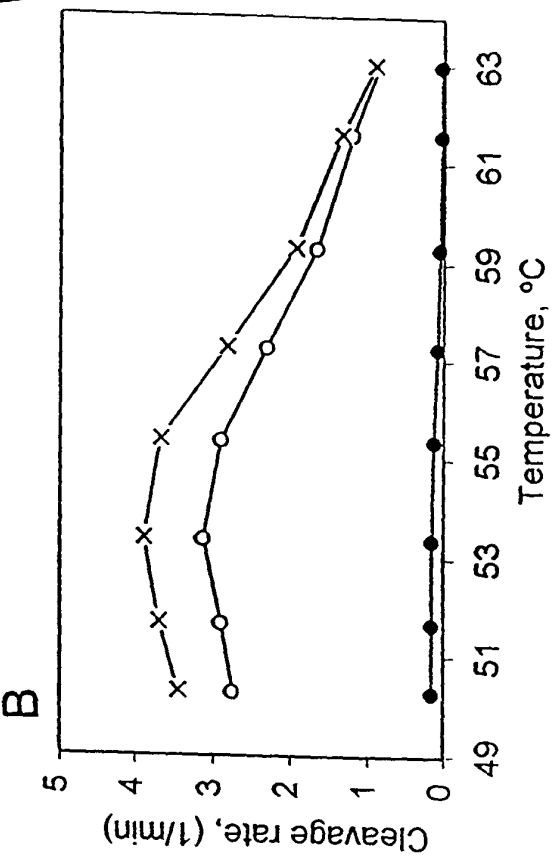


FIGURE 20



FIGURE 21

A

5'-tet-TTTTCAACTGCCGTGA
A CGAGGCGCACG
A GCTCCGCGTGGTTGACGGCACT

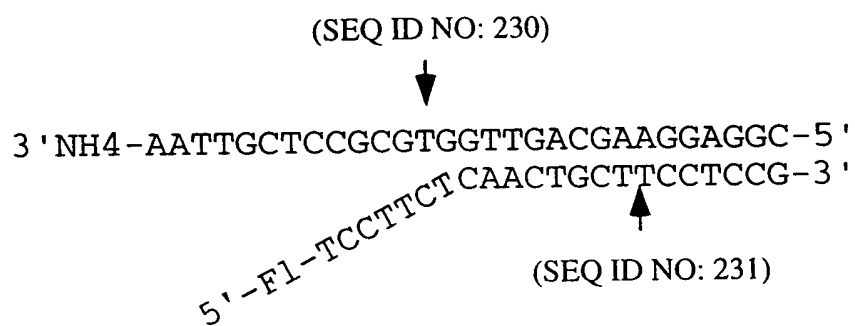
B

5'-tet-TTTTCAACTGCCGTGA
A CGAGGCGCACG
A GCUCCGCGUGGUUGACGGCACU-BiotinSA-5'



FIGURE 22

A



B



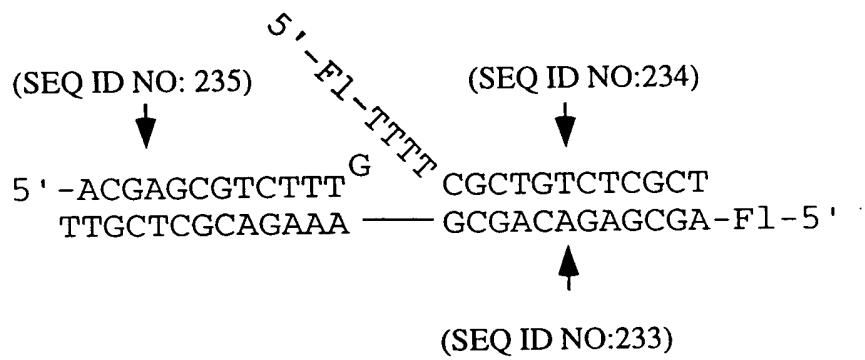




FIGURE 24

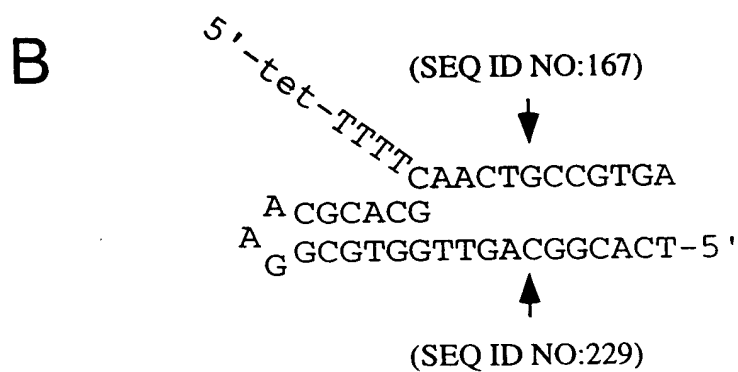
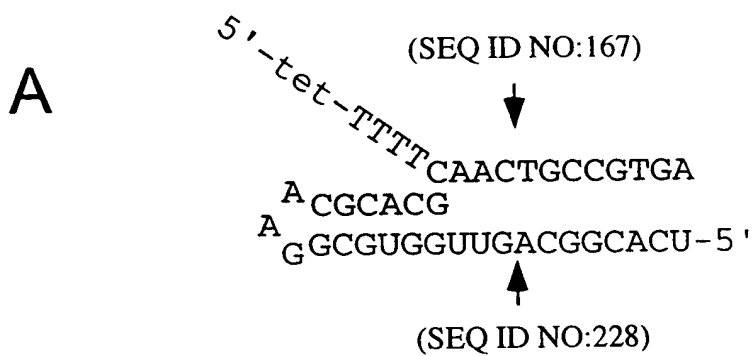


FIGURE 25

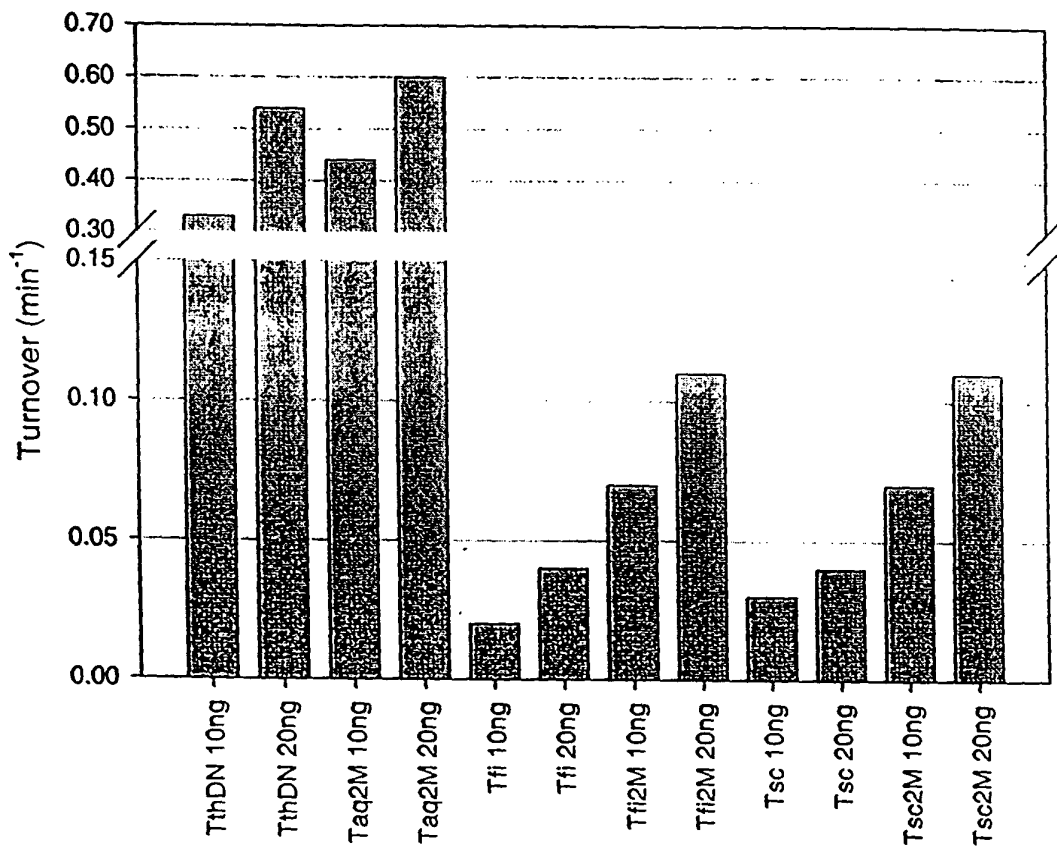


FIGURE 26

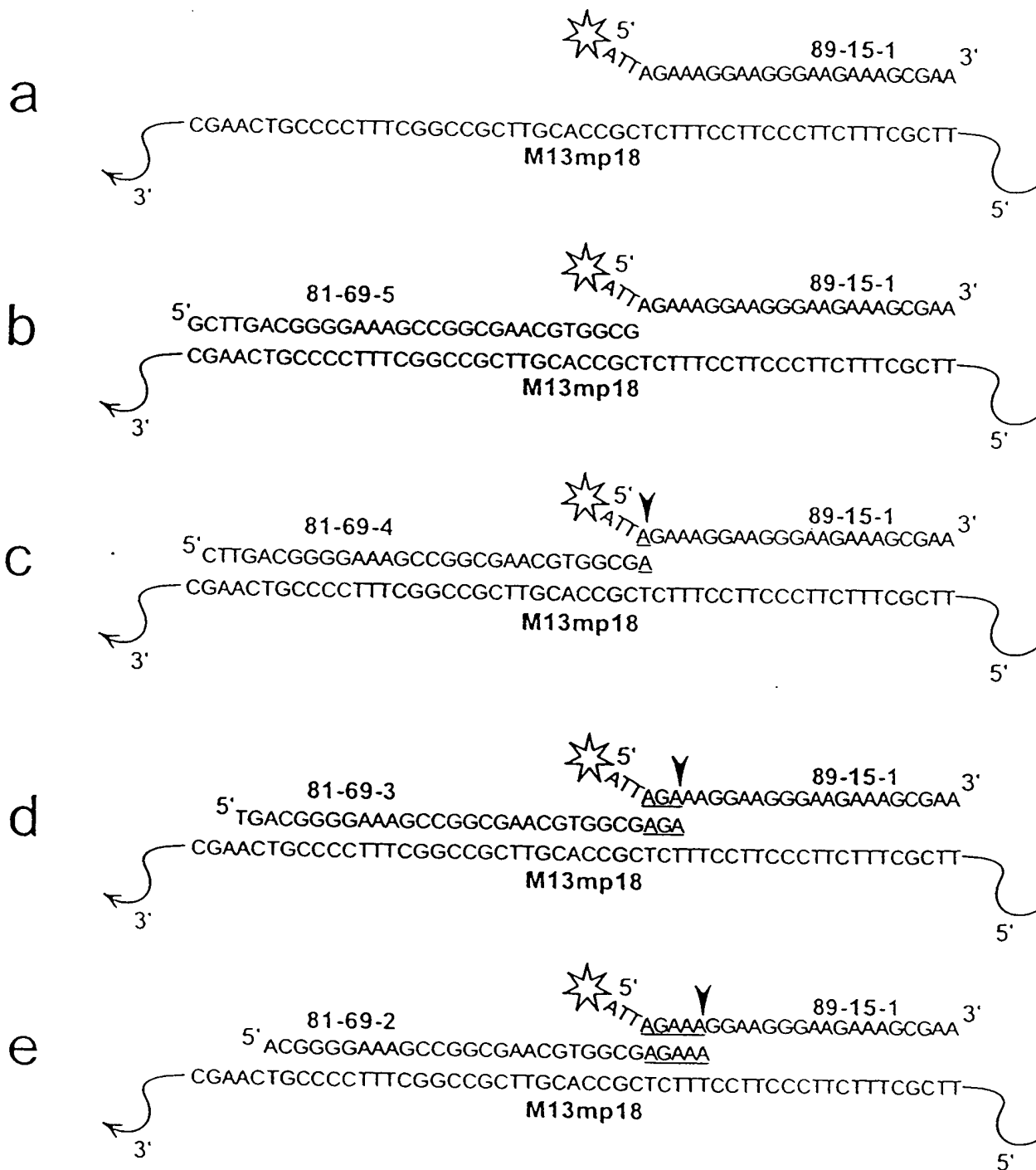




FIGURE 27

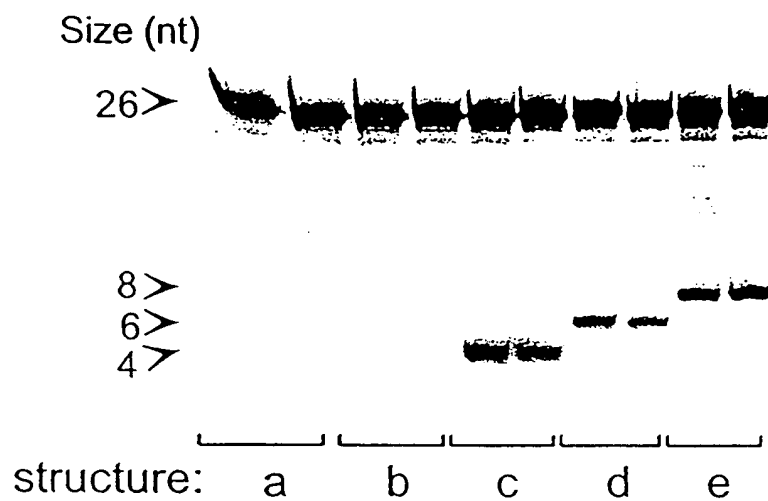
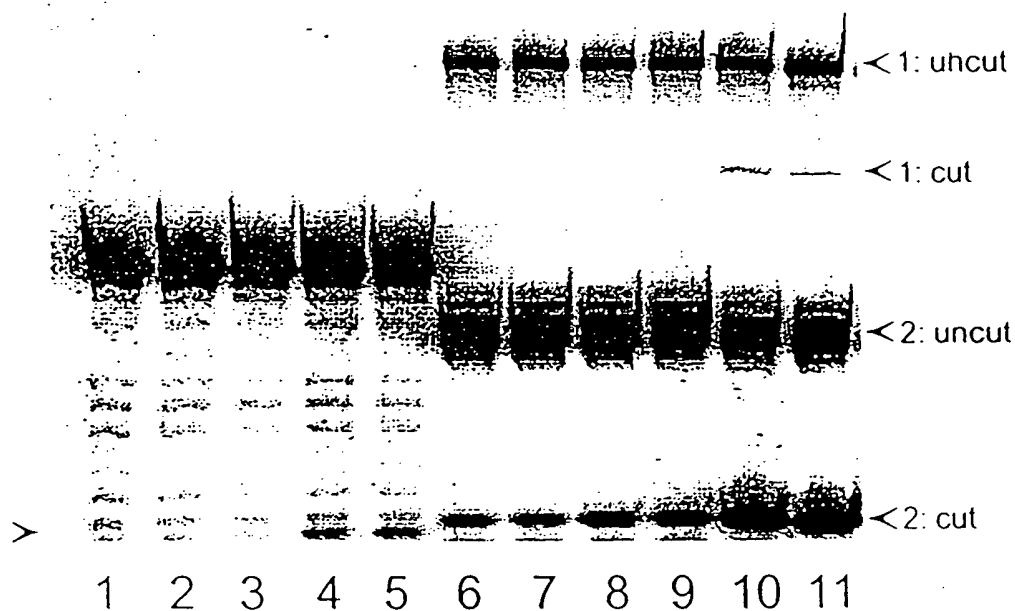


FIGURE 28

a



b

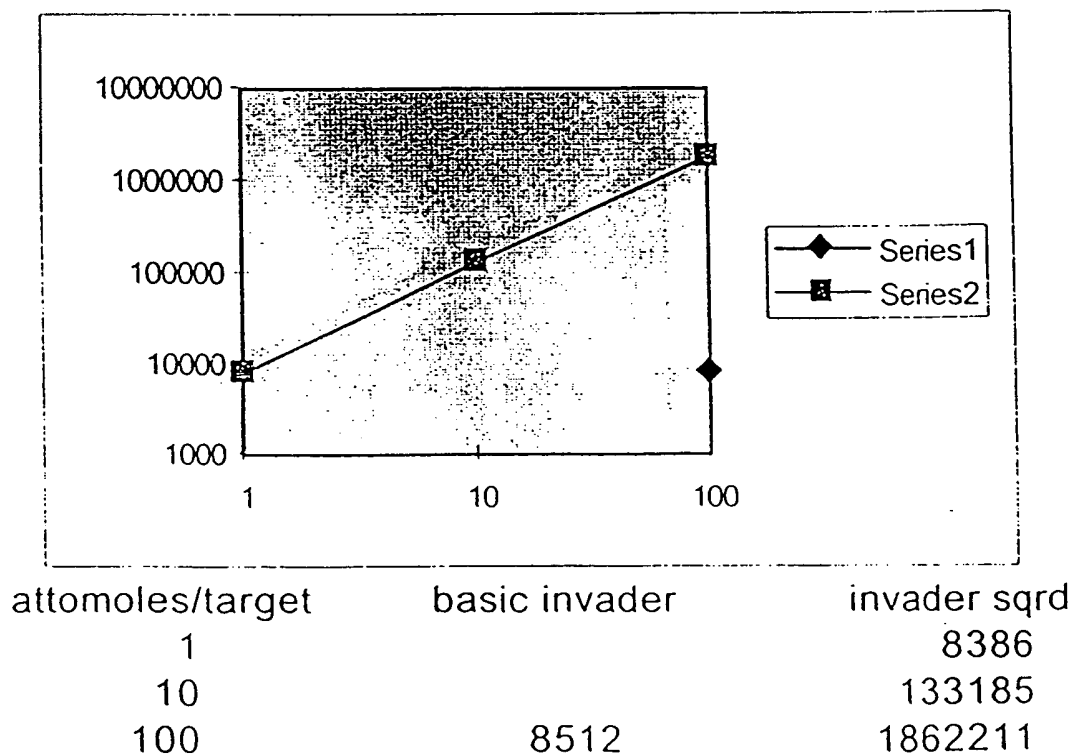




FIGURE 29

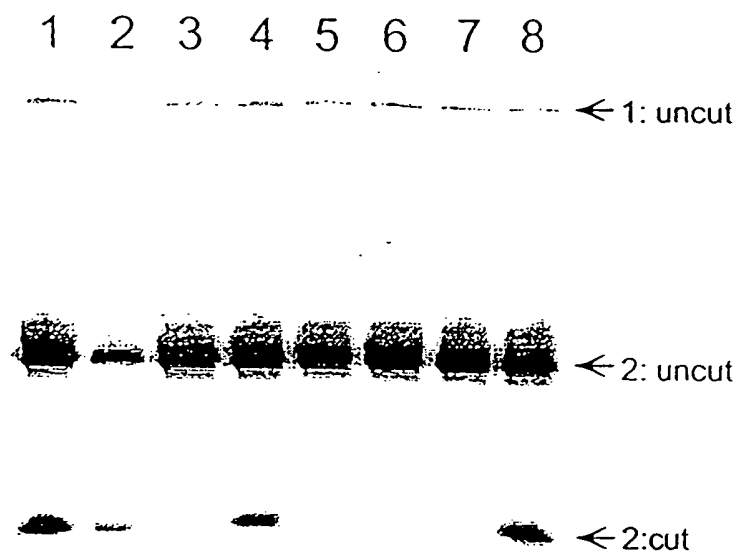




FIGURE 30

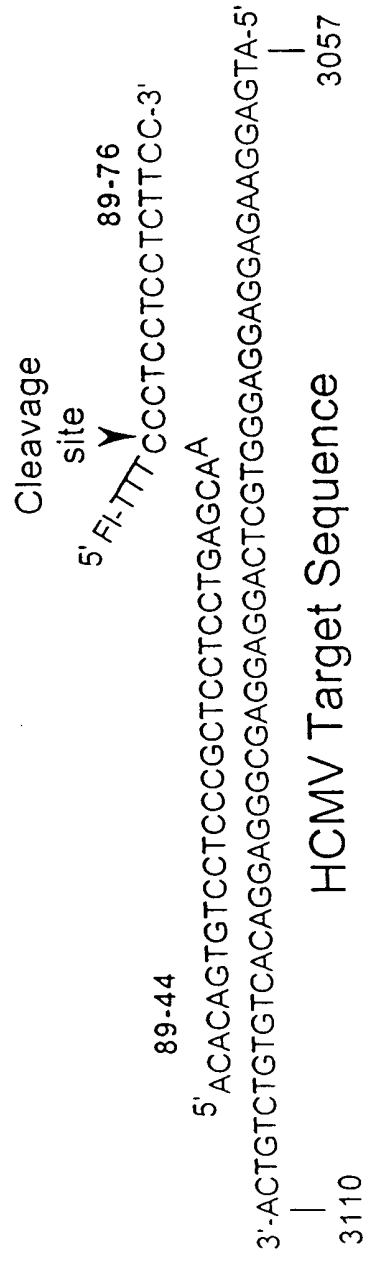




FIGURE 31

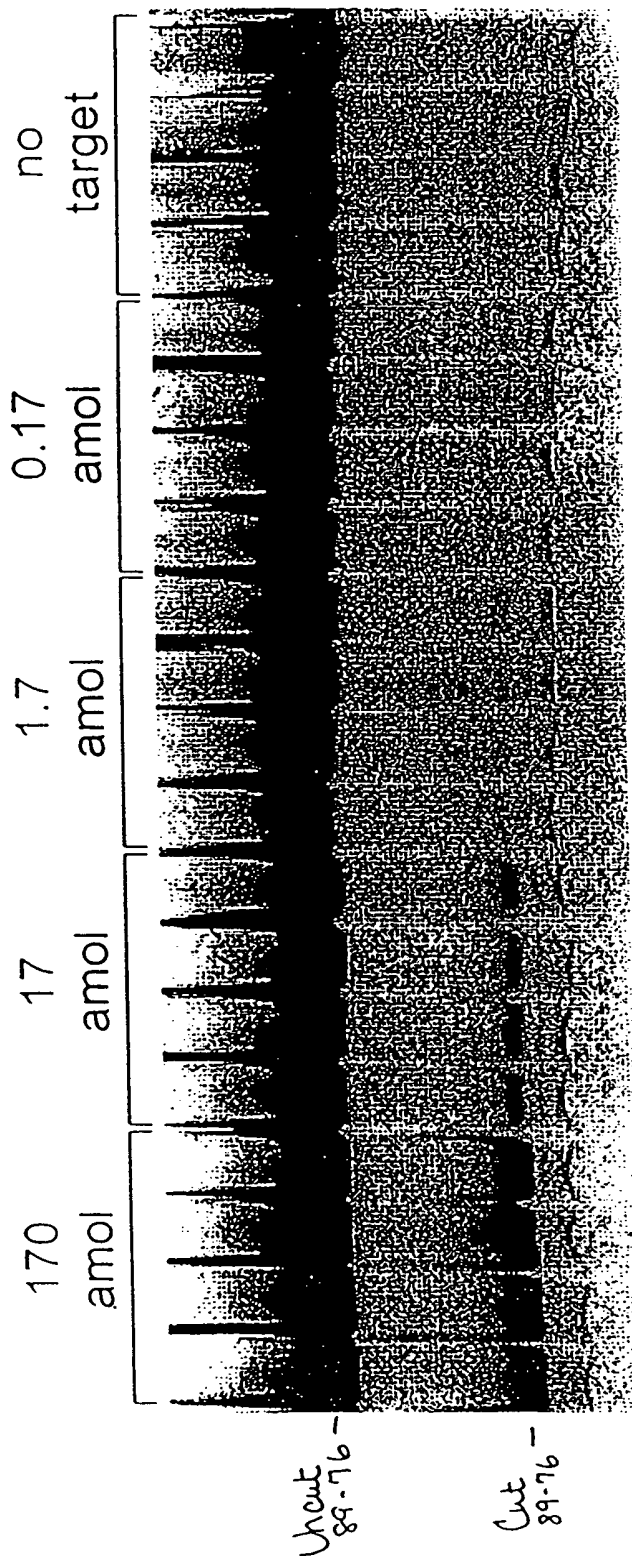
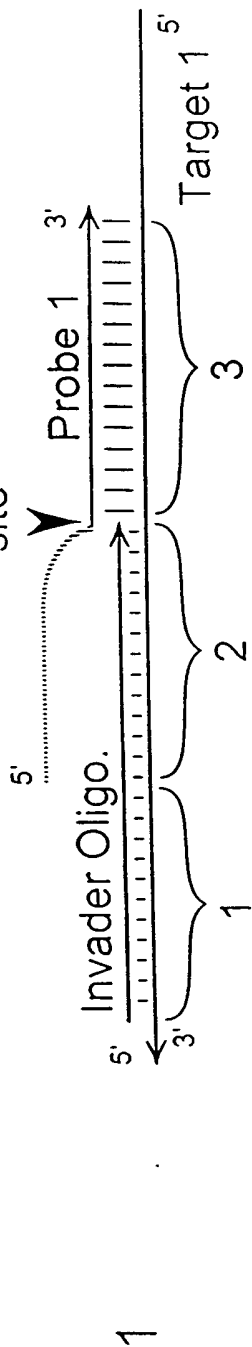
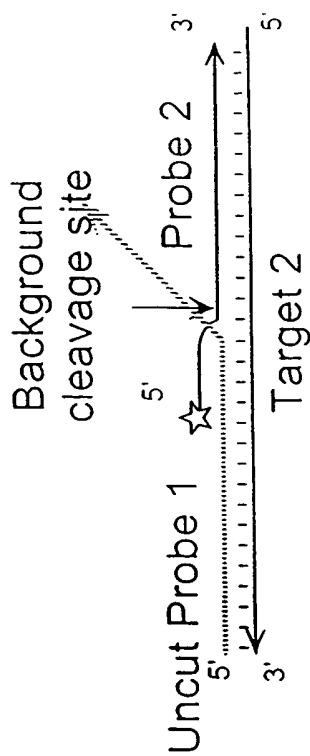


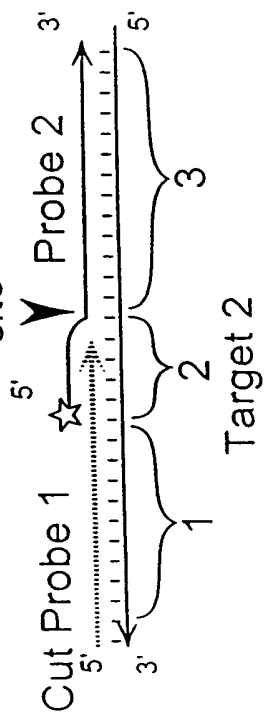
FIGURE 32
 Cleavage site



Background cleavage site



Cleavage site



Cleavage site

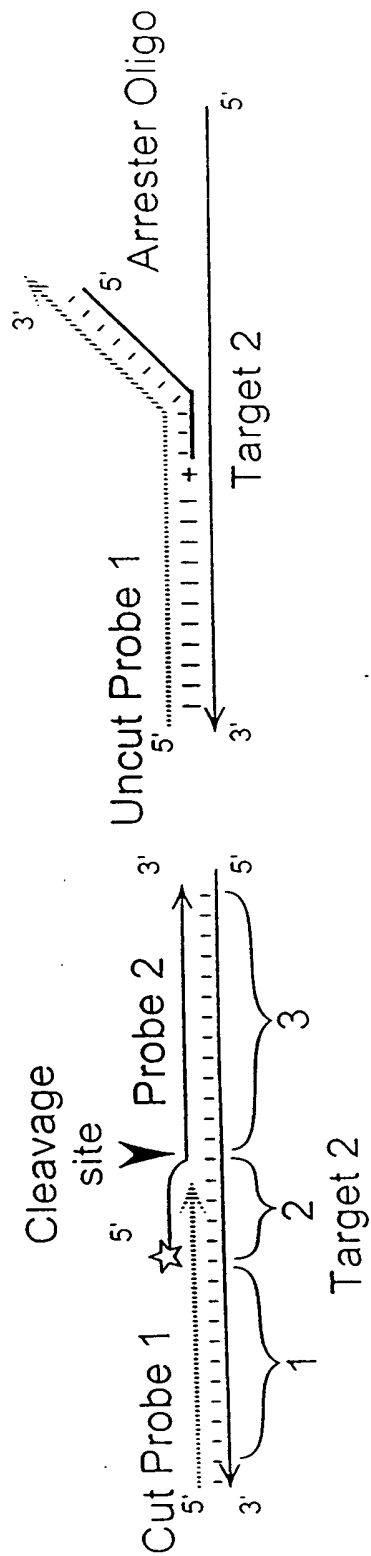


FIGURE 33

Cleavage site

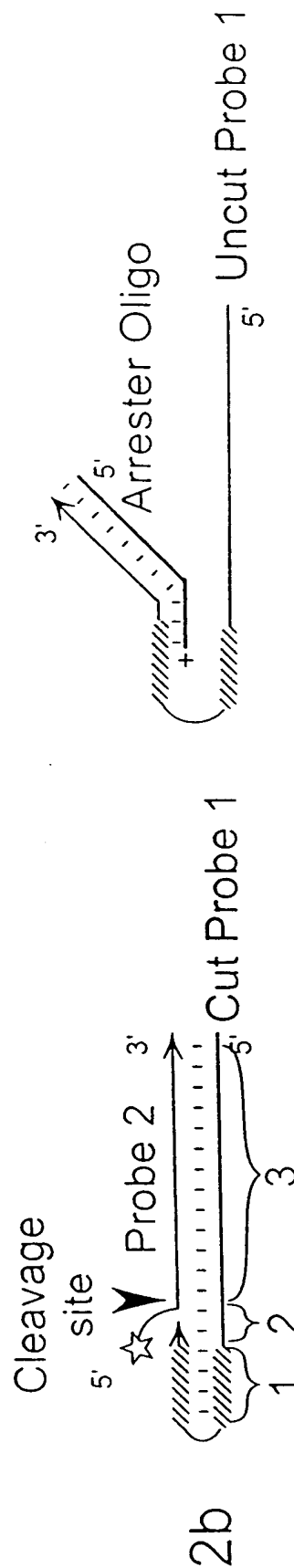
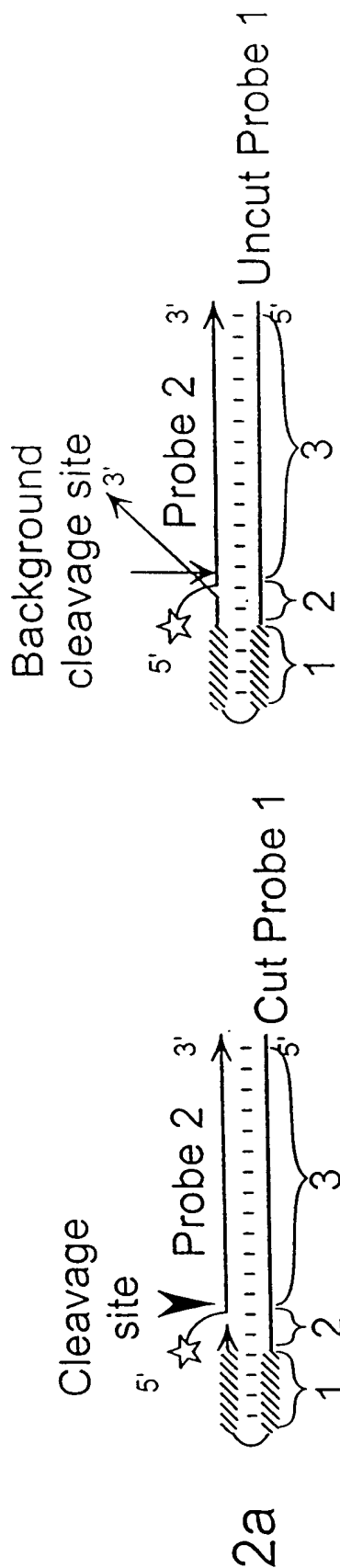
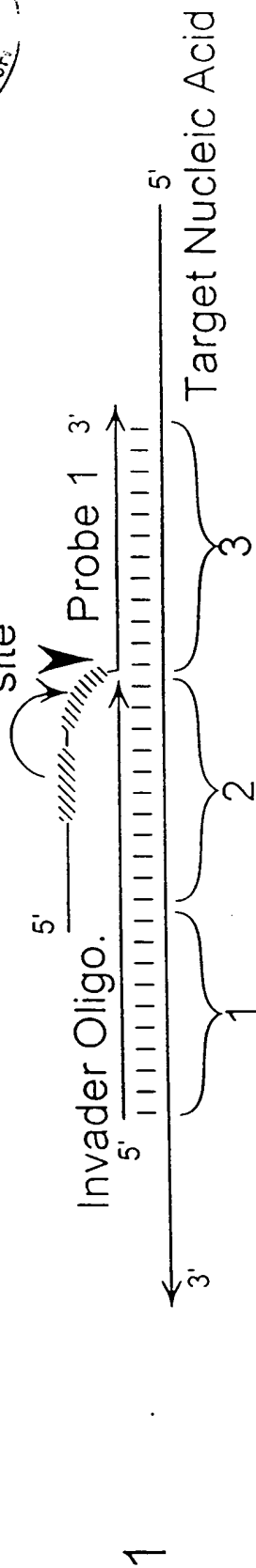
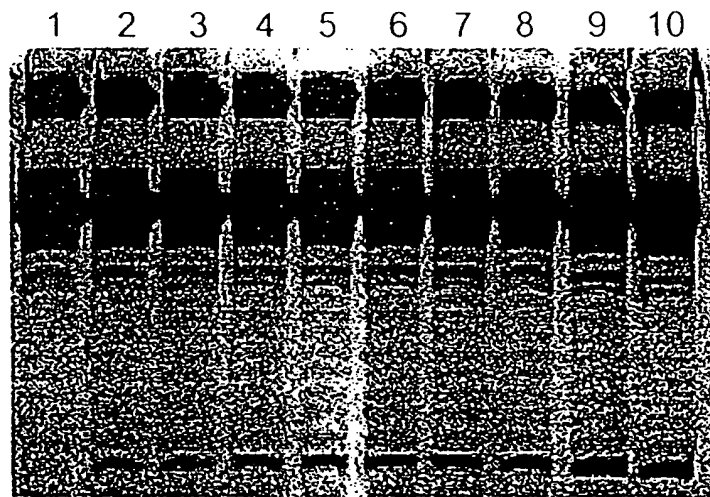


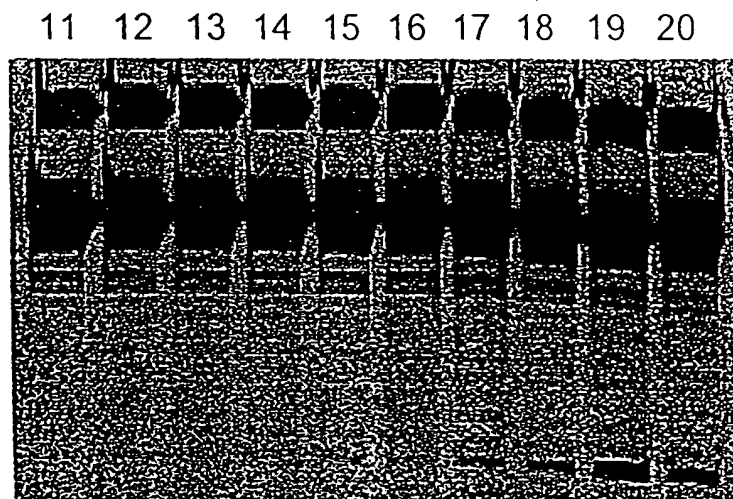


FIGURE 34

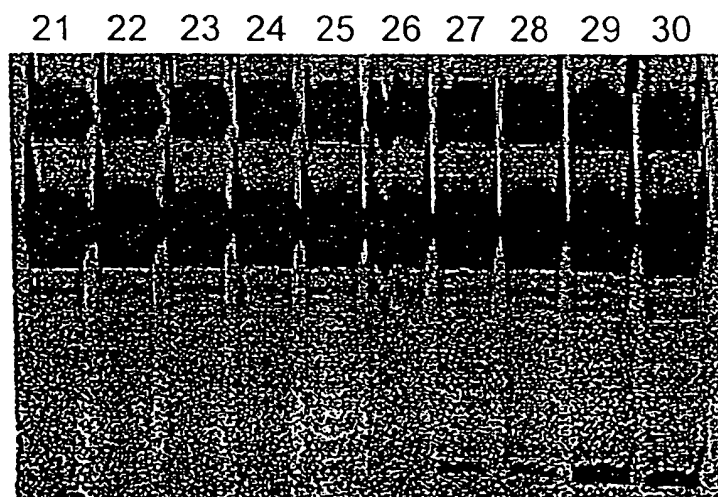
A



B



C



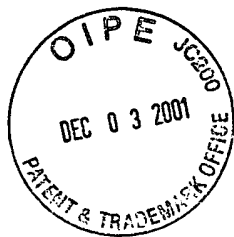


FIGURE 35A

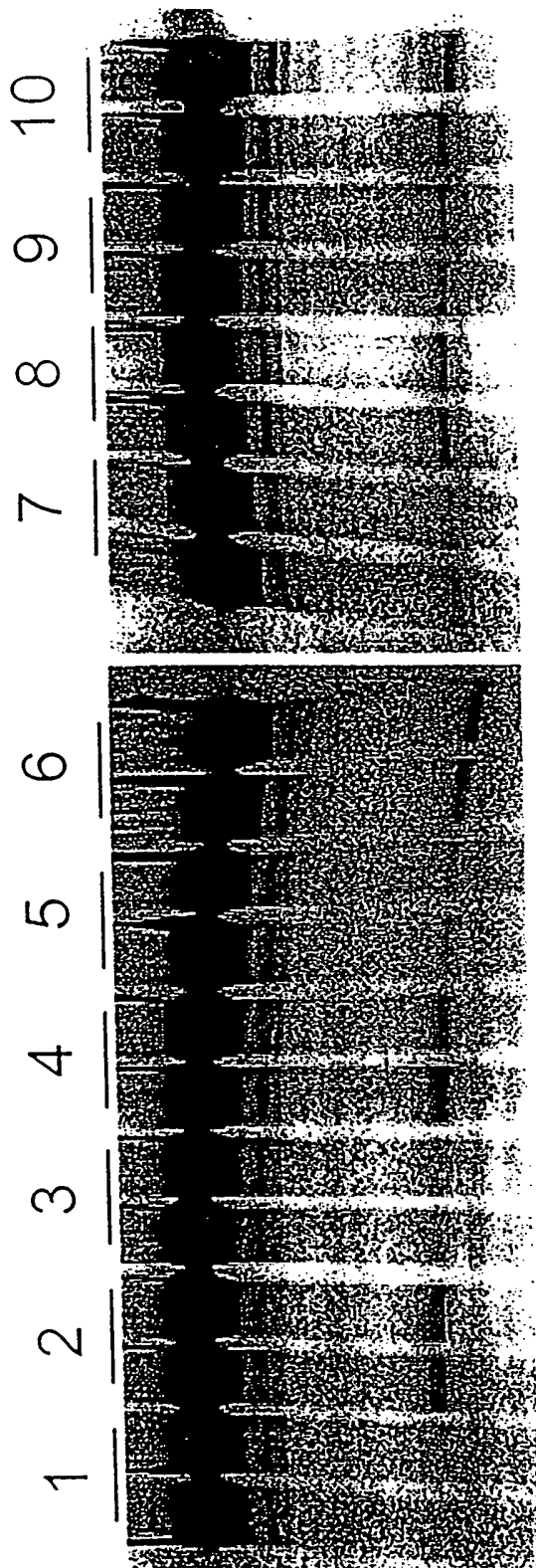




FIGURE 35B

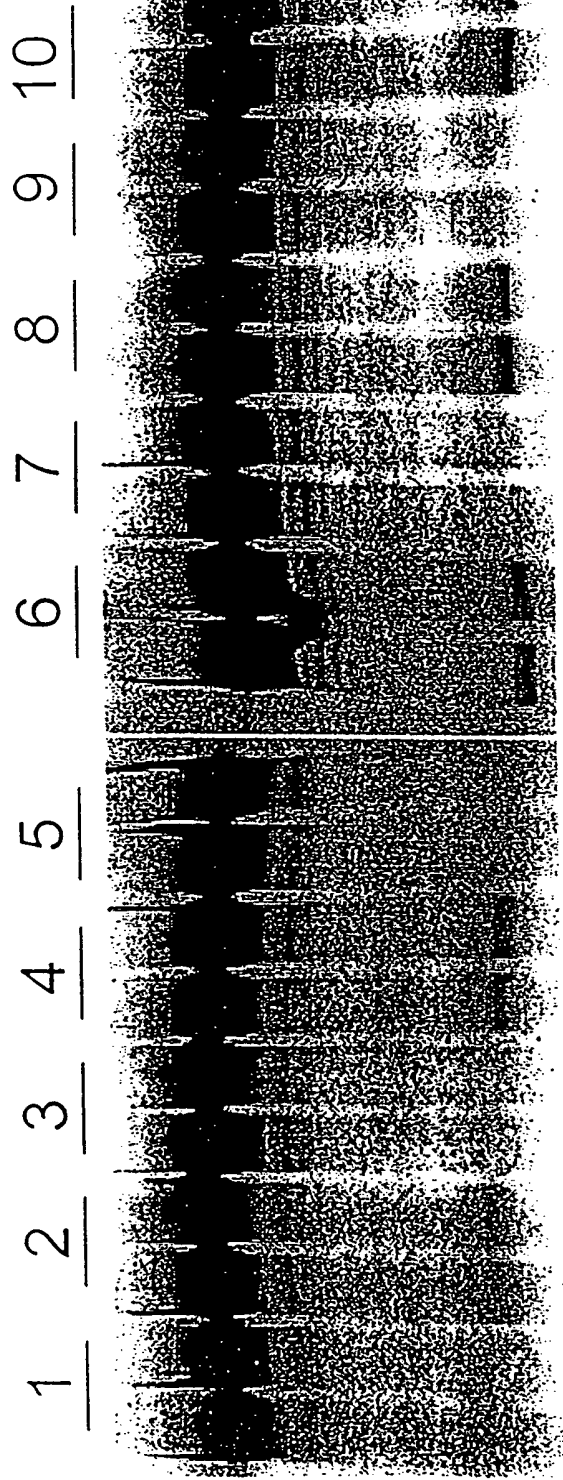




FIGURE 35C

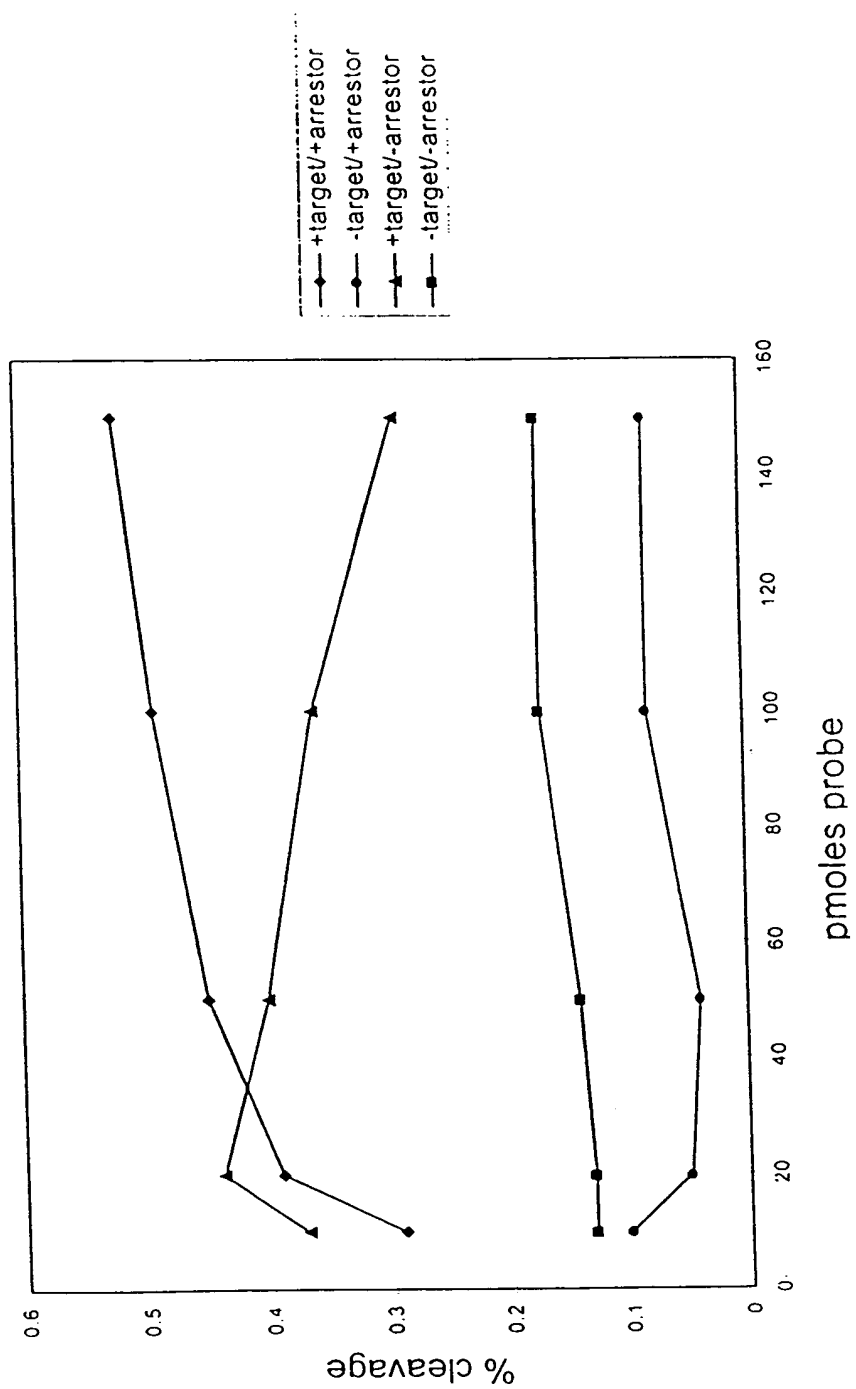




FIGURE 36A

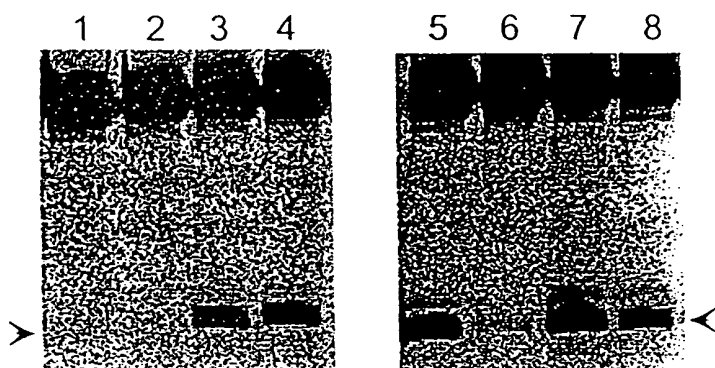




FIGURE 36B

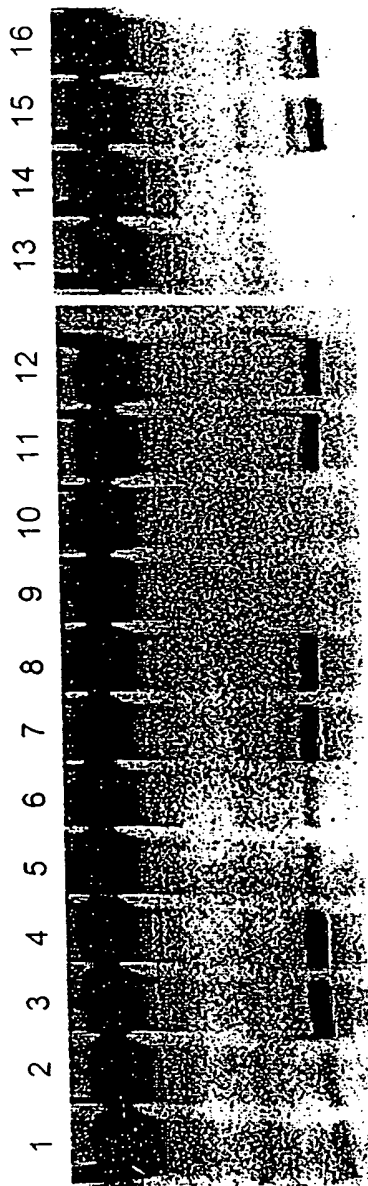




FIGURE 37A

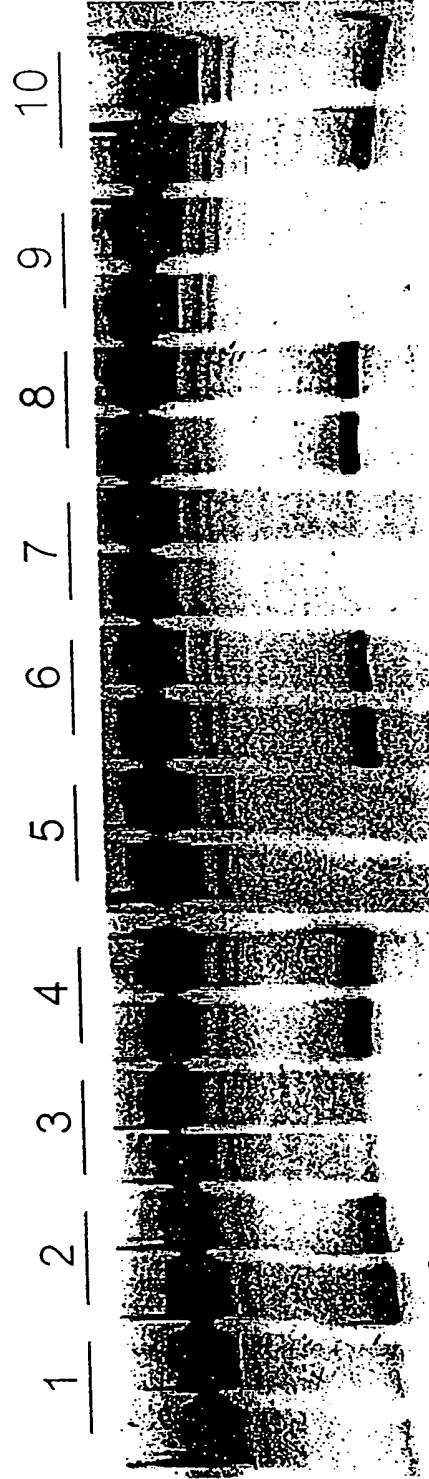




FIGURE 37B

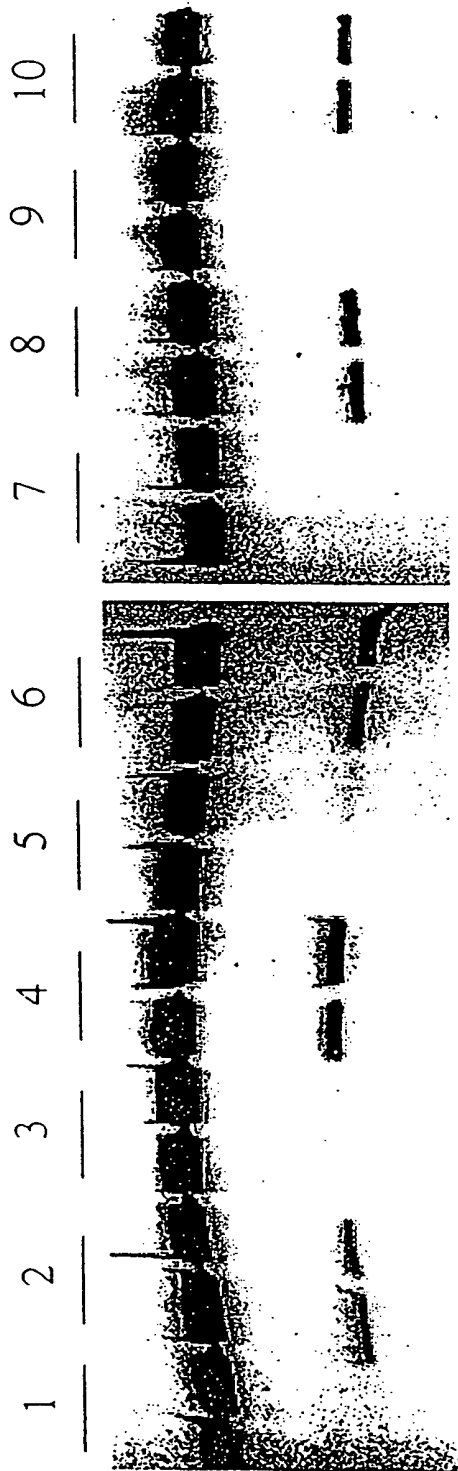




FIGURE 37C

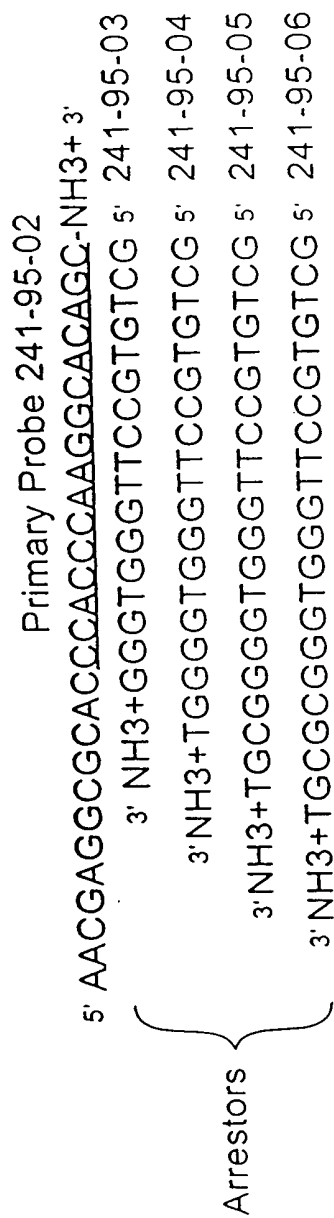




FIGURE 38

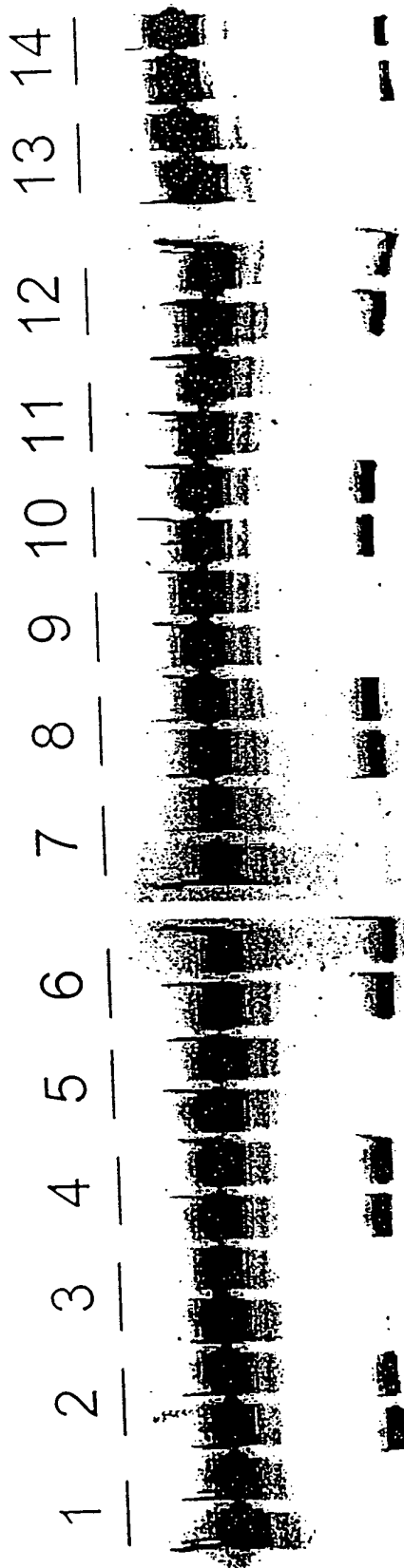




Figure 39

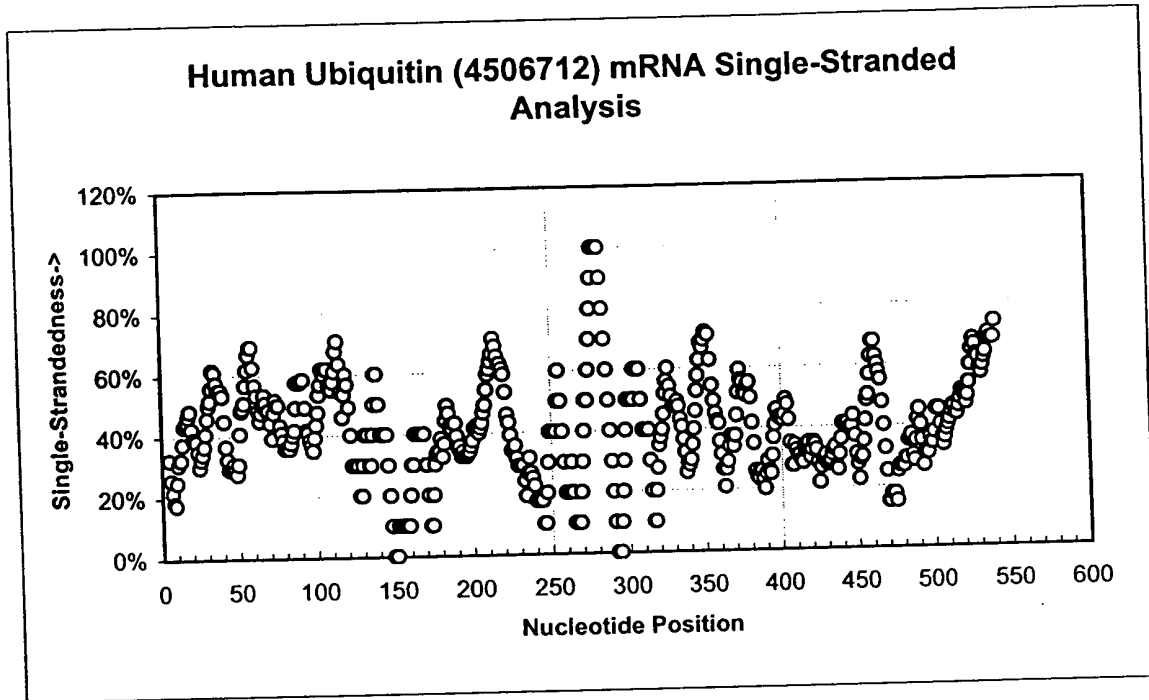




FIGURE 40

	1	2	3	4	5	6	7	8	9	10	11	12
A	Negative Control	No Target Control	Sample 1	Sample 1	Sample 9	Sample 9	Sample 17	Sample 17	Sample 25	Sample 25	Sample 33	Sample 33
B	No Target Control	No Target Control	Sample 2	Sample 2	Sample 10	Sample 10	Sample 18	Sample 18	Sample 26	Sample 26	Sample 34	Sample 34
C	Standard 1	Standard 1	Sample 3	Sample 3	Sample 11	Sample 11	Sample 19	Sample 19	Sample 27	Sample 27	Sample 35	Sample 35
D	Standard 2	Standard 2	Sample 4	Sample 4	Sample 12	Sample 12	Sample 20	Sample 20	Sample 28	Sample 28	Sample 36	Sample 36
E	Standard 3	Standard 3	Sample 5	Sample 5	Sample 13	Sample 13	Sample 21	Sample 21	Sample 29	Sample 29	Sample 37	Sample 37
F	Standard 4	Standard 4	Sample 6	Sample 6	Sample 14	Sample 14	Sample 22	Sample 22	Sample 30	Sample 30	Sample 38	Sample 38
G	Standard 5	Standard 5	Sample 7	Sample 7	Sample 15	Sample 15	Sample 23	Sample 23	Sample 31	Sample 31	Sample 39	Sample 39
H	Standard 6	Standard 6	Sample 8	Sample 8	Sample 16	Sample 16	Sample 24	Sample 24	Sample 32	Sample 32	Sample 40	Sample 40



FIGURE 41

hUbiquitin

Primary probe

INVADER oligonucleotide

ARRESTOR oligonucleotide

FRET Probe

Secondary target

5' -CGC CGA GAT CAC CTT TAC ATT TTC TAT CGT NH2-3'
5' -CCT TCC TTA TCC TGG ATC TTG GCA -3'
5'-ACG ATA GAA AAT GTA AAG GTG ATC-3'
5'-RED-CTC (Z28) TTC TCA GTG CG-3'
5'-CGC AGT GAG AAT GAG GTG ATC TCG GCG GT-3'

(SEQ ID NO:169)
(SEQ ID NO:170)
(SEQ ID NO:171)
(SEQ ID NO:172)
(SEQ ID NO:173)

m/r Ubiquitin, mouse (288C, 516C, 744C, 972C), rat (247C, 475C, 703C, 931C)

Primary probe

INVADER oligonucleotide 1

INVADER oligonucleotide 2

INVADER oligonucleotide 3

ARRESTOR oligonucleotide

FRET Probe

Secondary target

5'-CCG CCG AGA TCA CGG ATG TTG TAA TCA GAG A-NH2-3'
5'-GTG CAG GGT TGA CTC CTT CTC-3'
5'-GTG CAG GGT TGA CTC TTT CTC-3'
5'-GTG CAG GGT CGA CTC TTT CTC-3'
5'-TCT CTG ATT ACA ACA TCC GTG ATC T-3'
5'-RED-CTC (Z28) TTC TCA GTG CG-3'
5'-CGC AGT GAG AAT GAG GTG ATC TCG GCG GT-3'

(SEQ ID NO:174)
(SEQ ID NO:175)
(SEQ ID NO:176)
(SEQ ID NO:177)
(SEQ ID NO:178)
(SEQ ID NO:172)
(SEQ ID NO:173)

r/m GAPDH, rat (150C), mouse(166C)

Primary probe

INVADER oligonucleotide

ARRESTOR oligonucleotide

FRET Probe

Secondary target

5'-CGC CGA GAT CAC GTA GTT GAG GTC AAT GA-NH2-3'
5'-GAA TCA TAC TGG AAC ATG TAG ACC ATC-3'
5'-TCA TTG ACC TCA ACT ACG TGA TCT-3'
5'-RED-CTC (Z28) TTC TCA GTG CG-3'
5'-CGC AGT GAG AAT GAG GTG ATC TCG GCG GT-3'

(SEQ ID NO:179)
(SEQ ID NO:180)
(SEQ ID NO:181)
(SEQ ID NO:172)
(SEQ ID NO:173)

hGAPDH, 516C

Primary probe

INVADER oligonucleotide

ARRESTOR oligonucleotide

FRET Probe

Secondary target

5'-CCG CCG AGA TCA CGA TGA TCT TGA GGC T-NH2-3'
5'-TGG TGC AGG AGG CAT TGC TC-3'
5'-CAG CCT CAA GAT TAC CGT GAT CT-3'
5'-RED-CTC (Z28) TTC TCA GTG CG-3'
5'-CGC AGT GAG AAT GAG GTG ATC TCG GCG GT-3'

(SEQ ID NO:182)
(SEQ ID NO:183)
(SEQ ID NO:184)
(SEQ ID NO:172)
(SEQ ID NO:173)



hTGF- β

Primary probe
INVADER oligonucleotide
Stacker
ARRESTOR oligonucleotide
FRET Probe
Secondary target

5'-CCG TCA CGC CTC CTC CAC GGC TC -3'
5'-AGG CGA AAG CCC TCA ATT TCC CA-3'
5'-AAC CAC TGC CGC ACA-3'
5'-GAG CCG TGG AGG AGG CG-3'
5'-FL-CAC-(Z28)-TGC TTC GTG G-3'
5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'

hMCP-1

Primary probe
INVADER oligonucleotide
Stacker
ARRESTOR oligonucleotide
FRET Probe
Secondary target

5'-CCG TCA CGC CTC CTT CGG AGT TTG GG NH2 -3"
5'-GGG TTG TGG AGT GAG TGT TCA AGT A -3'
NO STACKER
5'-GGG-AAA-CTC-CGA-AGG-AGG-CG-3'
5'-FL-CAC-Z28-TGC TTC GTG G-3'
5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'

hTNF- α

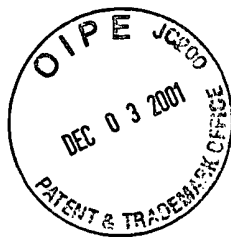
Primary probe
INVADER oligonucleotide
Stacker
ARRESTOR oligonucleotide
FRET Probe
Secondary target

5'-CCG TCA CGC CTC TCT GAC TGC CA NH2-3'
5'-TTG TCA CTC GGG GTT CGA GAA GAT GAA-3'
5'-GGG CCA GAG GG-3'
5'-AGG CAG TCA GAG AGG CG-3'
5'-FL-CAC-Z28-TGC TTC GTG G-3'
5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'

hIL-6

Primary probe
INVADER oligonucleotide
Stacker
ARRESTOR oligonucleotide
FRET Probe
Secondary target

5'-CCG TCA CGC CTC CTC ATT GAA TTNH2-3'
5'-CCA AAA GTC CAG TGA TTT TCA CCA GGC AAG TA -3'
5'-CAG ATT GGA AGC ATC CAT CT-3'
5'-GAT TCA ATG AGG AGG AGG C-3'
5'-FL-CAC-(Z28)-TGC TTC GTG G-3'
5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'



hIL-1 β

Primary probe

INVADER oligonucleotide

Stacker

ARRESTOR oligonucleotide

FRET Probe

Secondary target

5'-CCG TCA CGC CTC CAT CTG TTT AGG NH2-3'
5'-CAG GTC CTG GAA GGA GCA CTT A-3'
5'-GCC ATC AGC TTC TTT GTT CTT GTC ATC-3'
5'-GCC CTA AAC AGA TGG AGG CG-3'
5'-FL-CAC-(Z28)-TGC TTC GTG G-3'
5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'

(SEQ ID NO:202)
(SEQ ID NO:203)
(SEQ ID NO:204)
(SEQ ID NO:205)
(SEQ ID NO:189)
(SEQ ID NO:190)

hIL-2

Primary probe

INVADER oligonucleotide

Stacker

ARRESTOR oligonucleotide

FRET Probe

Secondary target

5'-CCG TCA CGC CTC CTC CAG TTG TAG NH2 -3'
5'-AAA ATC ATC TGT AAA TCC AGC AGT AAA TGA -3'
5'-CTG TGT TTT CTT TGT AGA AC -3'
5' CTA CAA CTG GAG GAG GC -3'
5'-FL-CAC-(Z28)-TGC TTC GTG G-3'
5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'

(SEQ ID NO:206)
(SEQ ID NO:207)
(SEQ ID NO:208)
(SEQ ID NO:209)
(SEQ ID NO:189)
(SEQ ID NO:190)

hIL-8

Primary probe

INVADER oligonucleotide

Stacker

ARRESTOR oligonucleotide

FRET Probe

Secondary target

5'-CCG TCA CGC CTC CTC TCA GTT CT-NH2-3'
5'-GTG TGG TCC ACT CTC AAT CAA -3'
5'-TTG ATA AAT TTG GGG TGG AAA GGT TTG GA-3'
5'-AGA ACT GAG AGG AGG CG-3'
5'-FL-CAC-(Z28)-TGC TTC GTG G-3'
5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'

(SEQ ID NO:210)
(SEQ ID NO:211)
(SEQ ID NO:619)
(SEQ ID NO:620)
(SEQ ID NO:189)
(SEQ ID NO:190)

hIL-10

Primary probe

INVADER oligonucleotide

Stacker

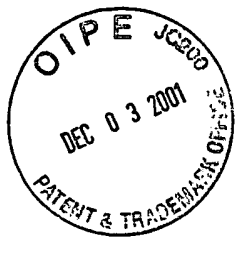
ARRESTOR oligonucleotide

FRET Probe

Secondary target

5'-AAC GAG GCG CAC CAA ACT CAC TCA T-NH2-3'
5'-GTC ATG TAG GCT TCT ATG TAG TTG ATG AAG ATG TA-3'
5'-GGC TTT GTA GAT GCC TTT CTC TTG GA-3'
5'-ATG AGT GAG TTT GGT GCG-3'
5'-FL-CAC (Z28)-TGC TTC GTG G-3'
5'-CCA GGA AGC AAG TGG TGC GCC TCG TTT-3'

(SEQ ID NO:621)
(SEQ ID NO:622)
(SEQ ID NO:623)
(SEQ ID NO:624)
(SEQ ID NO:189)
(SEQ ID NO:625)



hIL-4

Primary probe
INVADER oligonucleotide
Stacker
ARRESTOR oligonucleotide
FRET Probe
Secondary target

5'-AAC GAG GCG CAC CTT GGA GGC A-NH2-3'
5'-AAG GTT TCC TTC TCA GTT GTG TTA-3'
5'-GCA AAG ATG TCT GTT ACG GTC AAC TC-3'
5'-TGC CTC CAA GGT GCG C-3'
5'-FL-CAC (Z28)-TGC TTC GTG G-3'
5'-CCA GGA AGC AAG TGG TGC GCC TCG TTT-3'

(SEQ ID NO:626)
(SEQ ID NO:627)
(SEQ ID NO:628)
(SEQ ID NO:629)
(SEQ ID NO:189)
(SEQ ID NO:625)

hIFN-γ

Primary probe
INVADER oligonucleotide
Stacker
ARRESTOR oligonucleotide
FRET Probe
Secondary target

5'-AAC GAG GCG CAC CTT CAA AAT GCC TAA-NH2-3'
5'-TGT CAC TCT CCT CTT TCC AAT TA-3'
5'-GAA AAG AGT TCC ATT ATC CGC TAC ATC TG-3'
5'-TTA GGC ATT TTG AAG GTG CGC-3'
5'-FL-CAC (Z28)-TGC TTC GTG G-3'
5'-CCA GGA AGC AAG TGG TGC GCC TCG TTT-3'

(SEQ ID NO:630)
(SEQ ID NO:631)
(SEQ ID NO:632)
(SEQ ID NO:633)
(SEQ ID NO:189)
(SEQ ID NO:625)



hCYP 1A2, 1193G

Primary probe
INVADER oligonucleotide
Stacker
ARRESTOR oligonucleotide
FRET Probe
Secondary target

5'-AAC GAG GCG CAC CGT TGT GTC CC-NH2-3'
5'-GGG ATG TAG AAG CCA TTC AGA-3'
5'-TTG TTG TGC TGT GGG GGA TG-3'
5'-GGG ACA CAA CGG TGC GC-3'
5'-FL-CAC (Z28) TGC TTC GTG G-3'
5'-CCA GGA AGC AAG TGG TGC GCC TCG TTT-3'

(SEQ ID NO:634)
(SEQ ID NO:635)
(SEQ ID NO:636)
(SEQ ID NO:637)
(SEQ ID NO:189)
(SEQ ID NO:625)

hCYP 2B6, 343G

Primary probe
INVADER oligonucleotide
Stacker
ARRESTOR oligonucleotide
FRET Probe
Secondary target

5'-CCG TCA CGC CTC CAC CAT ATC CC-NH2-3'
5'-CCA GCG GTT TCC ATT GGC AAA GAT CAA-3'
5'-CGG AAG AAT GGG TCG ACC ATG-3'
5'-GGG ATA TGG TGG AGG CG-3'
5'-FL-CAC (Z28) TGC TTC GTG G-3'
5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'

(SEQ ID NO:638)
(SEQ ID NO:639)
(SEQ ID NO:640)
(SEQ ID NO:641)
(SEQ ID NO:189)
(SEQ ID NO:190)

hCYP 2C19, 223G

Primary probe
INVADER oligonucleotide
Stacker
ARRESTOR oligonucleotide
FRET Probe
Secondary target

5'-AAC GAG GCG CAC CGT TCC AGG C-NH2-3'
5'-CAT ATC CAT GCA GCA CCA CCA TGA-3'
5'-CAA AAT ACA GAG TGA ACA CAG GGC C-3'
5'-GCC TGG AAC GGT GCG C-3'
5'-FL-CAC (Z28) TGC TTC GTG G-3'
5'-CCA GGA AGC AAG TGG TGC GCC TCG TTT-3'

(SEQ ID NO:642)
(SEQ ID NO:643)
(SEQ ID NO:644)
(SEQ ID NO:645)
(SEQ ID NO:189)
(SEQ ID NO:625)

hCYP 2C9, 1554T

Primary probe
INVADER oligonucleotide
Stacker
ARRESTOR oligonucleotide
FRET Probe
Secondary target

5'-CCG TCA CGC CTC ATG GAT AAT GCC C-NH2-3'
5'-CAG GTG AGA AAA GGC ATT ACA GAT AGT GAA AGC-3'
5'-CAG AGG AAA GAG AGC TGC AGG G-3'
5'-GGG CAT TAT CCA TGA GGC G-3'
5'-FL-CAC (Z28) TGC TTC GTG G-3'
5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'

(SEQ ID NO:646)
(SEQ ID NO:647)
(SEQ ID NO:648)
(SEQ ID NO:649)
(SEQ ID NO:189)
(SEQ ID NO:190)



hCYP 2D6, 1316G

Primary probe
INVADER oligonucleotide
Stacker
ARRESTOR oligonucleotide
FRET Probe
Secondary target

5'-CCG TCA CGC CTC CCT GCT GAG AAA-NH2-3'
5'-CCC GAG GCA TGC ACG GCG GA-3'
5'-GGC AGG AAG GCC TCC-3'
5'-TTT CTC AGC AGG GAG GCG-3'
5'-FL-CAC (Z28) TGC TTC GTG G-3'
5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'

(SEQ ID NO:650)
(SEQ ID NO:651)
(SEQ ID NO:652)
(SEQ ID NO:653)
(SEQ ID NO:189)
(SEQ ID NO:190)

hCYP 3A4, 309C

Primary probe
INVADER oligonucleotide
Stacker
ARRESTOR oligonucleotide
FRET Probe
Secondary target

5'-CCG TCA CGC CTC GCC CCA CA-NH2-3'
5'-CAG CAC AGG CTG TTG ACC ATC ATA AAA C-3'
5'-CTT TTC CAT ACT TTT TAT GAC ATT C-3'
5'-TGT GGG GCG AGG CG-3'
5'-FL-CAC (Z28) TGC TTC GTG G-3'
5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'

(SEQ ID NO:654)
(SEQ ID NO:655)
(SEQ ID NO:656)
(SEQ ID NO:657)
(SEQ ID NO:189)
(SEQ ID NO:190)

hCYP 3A5 v2, 323T

Primary probe
INVADER oligonucleotide
Stacker
ARRESTOR oligonucleotide
FRET Probe
Secondary target

5'-AAC GAG GCG CAC AGT TGA CCT TC-NH2-3'
5'-GTG ATG GCC AGC ACA GGG C-3'
5'-ATA CGT TCC CCA CAT TTT TC-3'
5'-TGA AGG TCA ACT GTG CGC-3'
5'-FL-CAC (Z28) TGC TTC GTG G-3'
5'-CCA GGA AGC AAG TGG TGC GCC TCG TTT-3'

(SEQ ID NO:658)
(SEQ ID NO:659)
(SEQ ID NO:660)
(SEQ ID NO:661)
(SEQ ID NO:189)
(SEQ ID NO:625)

hCYP 3A7, 231C

Primary probe
INVADER oligonucleotide
Stacker
ARRESTOR oligonucleotide
FRET Probe
Secondary target

5'-AAC GAG GCG CAC GTC ATA AAT ACC CC-NH2-3'
5'-GCC AGC ATA GGC TGT TGA CAC-3'
5'-AGA CTT TTC TAT ACT TTT TAT AAC ATT C-3'
5'-GGG GTA TTT ATG ACG TGC GC-3'
5'-FL-CAC (Z28) TGC TTC GTG G-3'
5'-CCA GGA AGC AAG TGG TGC GCC TCG TTT-3'

(SEQ ID NO:662)
(SEQ ID NO:663)
(SEQ ID NO:664)
(SEQ ID NO:665)
(SEQ ID NO:189)
(SEQ ID NO:625)



h/rCYP 1A1 (human: 937, rat 863G)

Primary probe

INVADER oligonucleotide (h)

INVADER oligonucleotide (r)

Stacker

ARRESTOR oligonucleotide

FRET Probe

Secondary target

5'-CCG TCA CGC CTC CTG TCT GTG AT-NH2-3'

5'-TCC TGA CAG TGC TCA ATC AGG A-3'

5'-TCC TGA CAA TGC TCA ATG AGG A-3'

5'-GTC CCG GAT GTG GCC C-3'

5'-ATC ACA GAC AGG AGG CG-3'

5'-FL-CAC (Z28) TGC TTC GTG G-3'

5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'

(SEQ ID NO:666)

(SEQ ID NO:667)

(SEQ ID NO:668)

(SEQ ID NO:669)

(SEQ ID NO:670)

(SEQ ID NO:189)

(SEQ ID NO:190)

h/rCYP 1A2 (813C/819C)

Primary probe

INVADER oligonucleotide (h)

INVADER oligonucleotide (r)

ARRESTOR oligonucleotide

FRET Probe

Secondary target

5'-AAC GAG GCG CAC GGA CTG TTT TCT GC-NH2-3'

5'-CTT GTC AAA GTC CTG ATA GTG CTC CTC-3'

5'-CTT GTT GAA GTC TTG ATA GTG TTC CTC-3'

5'-GCA GAA AAC AGT CCG TGC GC-3'

5'-FL-CAC (Z28) TGC TTC GTG G-3'

5'-CCA GGA AGC AAG TGG TGC GCC TCG TTT-3'

(SEQ ID NO:671)

(SEQ ID NO:672)

(SEQ ID NO:673)

(SEQ ID NO:674)

(SEQ ID NO:189)

(SEQ ID NO:625)

rCYP 2B1, 1017T

Primary probe

INVADER oligonucleotide

Stacker

ARRESTOR oligonucleotide

FRET Probe

Secondary target

5'-CCG TCA CGC CTC ACT GCG GTC AT-NH2-3'

5'-GTG GAT AAC TGC ATC AGT GTA TGG CAT TTT C-3'

5'-CAA GGG TTG GTA GCC TGT GTG AGC C-3'

5'-ATG ACC GCA GTG AGG CG-3'

5'-FL-CAC (Z28) TGC TTC GTG G-3'

5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'

(SEQ ID NO:675)

(SEQ ID NO:676)

(SEQ ID NO:677)

(SEQ ID NO:678)

(SEQ ID NO:189)

(SEQ ID NO:190)

rCYP 2B2, 162T

Primary probe

INVADER oligonucleotide

Stacker

ARRESTOR oligonucleotide

FRET Probe

Secondary target

5'-CCG TCA CGC CTC AGA GCC AAT CAC-NH2-3'

5'-CGA TCA TCA AGG GAT GGT GGC CTG TGC-3'

5'-CTG ATC AAT CTC CTT TTG GAC TTT CTC TGC G-3'

5'-GTG ATT GGC TCT GAG GCG-3'

5'-FL-CAC (Z28) TGC TTC GTG G-3'

5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'

(SEQ ID NO:679)

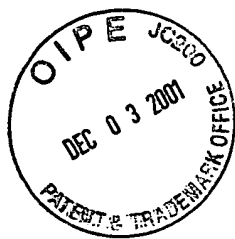
(SEQ ID NO:680)

(SEQ ID NO:681)

(SEQ ID NO:682)

(SEQ ID NO:189)

(SEQ ID NO:190)



rCYP 2E1, 969G

Primary probe
INVADER oligonucleotide
Stacker
ARRESTOR oligonucleotide
FRET Probe
Secondary target

5'-CCG TCA CGC CTC CTC AAT TTC TG-NH2-3'
5'-CCC TGT CAA TTT CTT CAT GAA GTT TA-3'
5'-GGT ATT TCA TGA GGA TCA GGA GC-3"
5'-CAG AAA TTG AAG AGG AGG CG-3'
5'-FL-CAC (Z28) TGC TTC GTG G-3'
5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'

(SEQ ID NO:683)
(SEQ ID NO:684)
(SEQ ID NO:685)
(SEQ ID NO:686)
(SEQ ID NO:189)
(SEQ ID NO:190)

rCYP 3A1, 164G

Primary probe
INVADER oligonucleotide
Stacker
ARRESTOR oligonucleotide
FRET Probe
Secondary target

5'-AAC GAG GCG CAC CCG GTC CCA-NH2-3'
5'-TCC CCT GTT TCT TGA AAA GTC CAT GTG TGA-3'
5'-AAT CCG TAG AGG AGC ACC AGG-3'
5'-TGG GAC CCG GTG CGC-3'
5'-FL-CAC (Z28) TGC TTC GTG G-3'
5'-CCA GGA AGC AAG TGG TGC GCC TCG TTT-3'

(SEQ ID NO:687)
(SEQ ID NO:688)
(SEQ ID NO:689)
(SEQ ID NO:690)
(SEQ ID NO:189)
(SEQ ID NO:625)

rCYP 3A2, 1091G

Primary probe
INVADER oligonucleotide
Stacker
ARRESTOR oligonucleotide
FRET Probe
Secondary target

5'-CCG TCA CGC CTC CTC GGC AGG-NH2-3'
5'-CAC AAT ATC GTA GGT AGG AGG TGC CTT AA-3'
5'-GCC CCA TCG ATC TCC TCC-3'
5'-CCT GCC GAG GAG GCG-3'
5'-FL-CAC (Z28) TGC TTC GTG G-3'
5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'

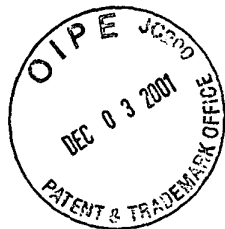
(SEQ ID NO:691)
(SEQ ID NO:692)
(SEQ ID NO:693)
(SEQ ID NO:694)
(SEQ ID NO:189)
(SEQ ID NO:190)

rCYP 4A1, 296A

Primary probe
INVADER oligonucleotide
Stacker
ARRESTOR oligonucleotide
FRET Probe
Secondary target

5'-AAC GAG GCG CAC TAG GCT TTG CT-NH2-3'
5'-TTC ATG TAG TCA GGG TCA TAG ACA ATT AAG A-3'
5'-TCC CCA GAA CCA TCG AGG AAA GG-3'
5'-AGC AAA GCC TAG TGC GC-3'
5'-FL-CAC (Z28) TGC TTC GTG G-3'
5'-CCA GGA AGC AAG TGG TGC GCC TCG TTT-3'

(SEQ ID NO:695)
(SEQ ID NO:696)
(SEQ ID NO:697)
(SEQ ID NO:698)
(SEQ ID NO:189)
(SEQ ID NO:625)



rCYP 4A2

Primary probe
INVADER oligonucleotide
Stacker
ARRESTOR oligonucleotide
FRET Probe
Secondary target

5'-AAC GAG GCG CAC AGA AGG CCC CTT-NH2-3'
5'-CCT TGA ACA GCA CCA GAA ATA GAC TGA GCA C-3'
5'-GGA AGA ACC CAG AGA CAC CAT CC-3'
5'-AAG GGG CCT TCT GTG CGC-3'
5'-FL-CAC (Z28) TGC TTC GTG G-3'
5'-CCA GGA AGC AAG TGG TGC GCC TCG TTT-3'

(SEQ ID NO:699)
(SEQ ID NO:700)
(SEQ ID NO:701)
(SEQ ID NO:702)
(SEQ ID NO:189)
(SEQ ID NO:625)

rCYP 4A3, 1235C

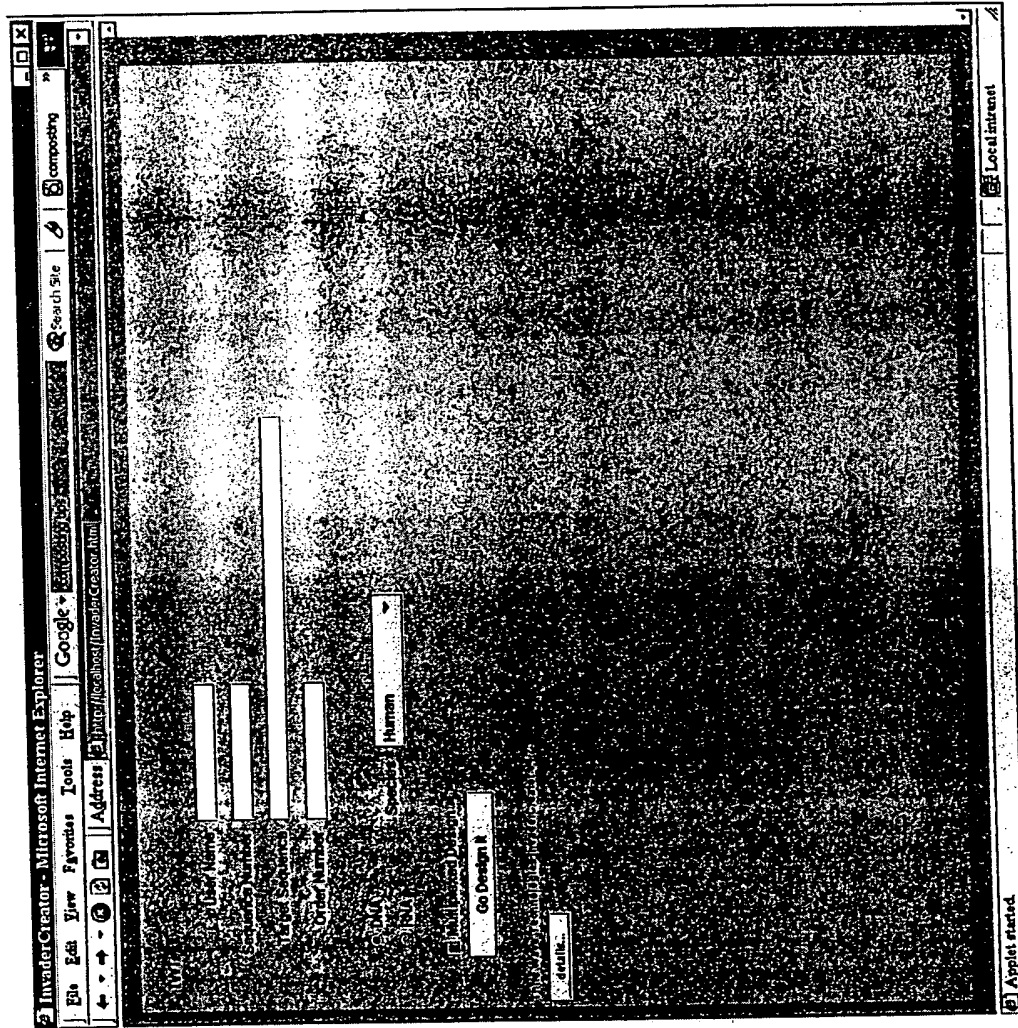
Primary probe
INVADER oligonucleotide
Stacker
ARRESTOR oligonucleotide
FRET Probe
Secondary target

5'-AAC GAG GCG CAC GTT GTG ATA CCT T-NH2-3'
5'-GAT GAA GGC CAT AAA TTA AAA TTG TGC-3'
5'-TGG GTA TGG AAC GTC C-3'
5'-AAG GTA TCA CAA CGT GCG C-3'
5'-FL-CAC (Z28) TGC TTC GTG G-3'
5'-CCA GGA AGC AAG TGG TGC GCC TCG TTT-3'

(SEQ ID NO:703)
(SEQ ID NO:704)
(SEQ ID NO:705)
(SEQ ID NO:706)
(SEQ ID NO:189)
(SEQ ID NO:625)



Figure 42









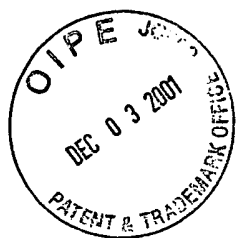
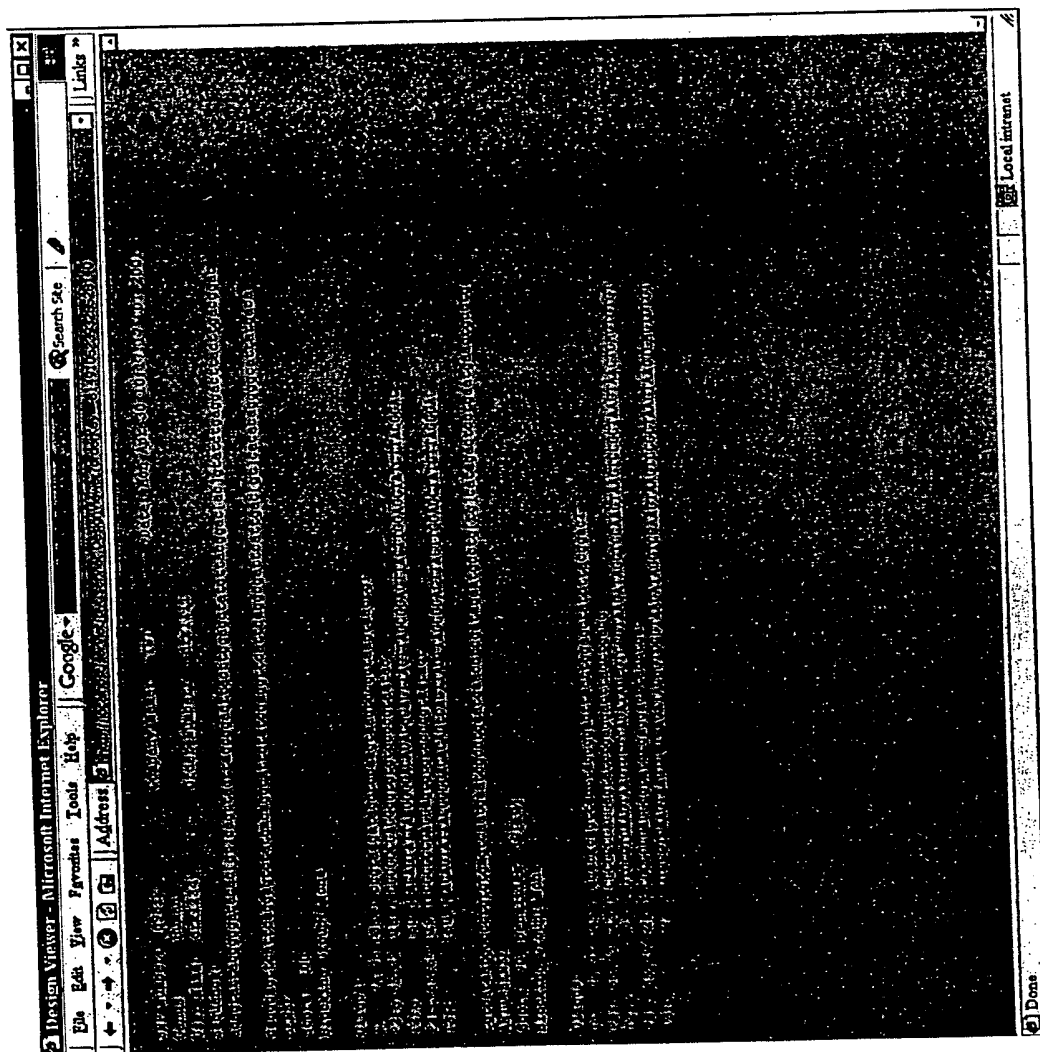


Figure 46



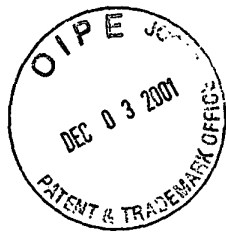


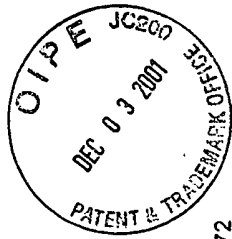
FIGURE 47

Oligo sequence descriptions: 5' to 3' direction, 2'-Ome nts are bolded and underlined, internal modifications defined in ()

Oligo Type	Oligo Sequence (5' to 3')	Modification	SEQ ID NO
hTNF- α			
probe	ccg ccg aga tca ctc tga ctg cct NH2	3' Amine	709
invader	tig tca ctc ggg gtt cga gaa gat gaa		710
stacker	<u>ggg cca gag ggc tga tta g</u>	<u>all 2'Ome bases</u>	711
stacker	<u>ggg cca gag ggc tga tta</u>	<u>all 2'Ome bases</u>	712
stacker	<u>ggg cca gag ggc tg at</u>	<u>all 2'Ome bases</u>	713
stacker	<u>ggg cca gag ggc t</u>	<u>all 2'Ome bases</u>	714
stacker	<u>ggg cca gag gg</u>	<u>all 2'Ome bases</u>	715
arrestor	<u>agg cag tca gag tga tc</u>	<u>all 2'Ome bases</u>	716
arrestor	<u>agg cag tca gag tga tct c</u>	<u>all 2'Ome bases</u>	717
SRT	cggagaagcagtggtgatctcgccgNH2		718
FRET probe	Fcaac(Cy3)gcttctccg	3' Amine	719
probe	ccg tca cgc ctc tct gac tgc ct NH2	3' Amine	720
invader	tig tca ctc ggg gtt cga gaa gat gaa		721
stacker	<u>ggg cca gag ggc tga tta g</u>	<u>all 2'Ome bases</u>	722
arrestor	<u>agg cag tca gag agg cg</u>	<u>all 2'Ome bases</u>	723
SRT	cggagaagcagtggtgagcggtgacggNH2	3'base 2'Ome, 3'Amine	724
FRET probe	Fcaac(Cy3)gcttctccg		725
probe	ccg tca cgc ctc tct gac tgc ctg gNH2	3' Amine	726
invader	tig tca ctc ggg gtt cga gaa gat gaa		727
arrestor	<u>cca ggc agt cag aga ggc g</u>	<u>all 2'Ome bases</u>	728
SRT	cggagaagcagtggtgagcggtgacggNH2	3'base 2'Ome, 3'Amine	729
FRET probe	Fcaac(Cy3)gcttctccg		730
probe	ccg ccg aga tca ctc tga ctg cc NH2	3' Amine	731
invader	tig tca ctc ggg gtt cga gaa gat gaa		732
stacker	<u>tgg gcc aga ggg ctg att a</u>	<u>all 2'Ome bases</u>	733
arrestor	<u>agg cag tca gag tga tc</u>	<u>all 2'Ome bases</u>	734
SRT	cggagaagcagtggtgatctcgccgNH2	3' Amine	735
FRET probe	Fcaac(Cy3)gcttctccg		736
probe	ccg ccg aga tca ctg atc tga ctg NH2	3' Amine	737
invader	ctt gtc act cgg ggt tgc aga aga c		738



stacker	<u>cct ggg cca gag ggc tga tt</u>	all 2'Ome bases	739
arrestor	<u>cag tca gat cag tga tc</u>	all 2'Ome bases	740
SRT	cggaagaagcagttggtgatcgcggcggNH2	3' Amine	741
FRET probe	Fcaac(Cy3)gcttcctccg		742
probe	cgc tca cgc ctc tct gac tgc ca NH2	3' Amine	743
probe	cgc tca cgc ctc tct gac tgc cg NH2	3' Amine	744
probe	cgc tca cgc ctc tct gac ggc ct NH2	3' Amine	745
probe	cgc tca cgc ctc tct gac agc ct NH2	3' Amine	746
invader	tgt tca ctc ggg gtt cga gaa gat gaa		747
stacker	<u>ggg cca gag gg</u>	all 2'Ome bases	748
arrestor	<u>agg cag tca gag agg cg</u>	all 2'Ome bases	749
arrestor	<u>agg ccg tca gag agg cg</u>	all 2'Ome bases	750
arrestor	<u>agg ctg tca gag agg cg</u>	all 2'Ome bases	751
SRT	ccaggaaagcagttggtgatcgcggcggNH2	3' 3bases 2'Ome	752
FRET probe	Fcaac(Z21)gcttcgtgg		753
probe	cgc cgc aga tca ctc tga tgc ctg gg NH2	3' Amine	754
invader	ctt gtc act cgg ggt tgc aga aga tga a		755
arrestor	<u>ccc agg cag tca gag tga tcNH2</u>	all 2'Ome bases, 3' Amine	756
SRT	cggaggaaagcagttggtgatcgcggcggNH2	3' 2 last base 2'Ome, 3' Amine	757
FRET probe	Fcaac(Cy3)gcttcctccg		758
hIL-1 β			
probe	cgc tca cgc ctc cat ctg ttg agg g NH2	3' Amine	759
invader	cag gtc ctg gaa gga gca ctt a		760
stacker	<u>cca tca gct tct ttg ttc ttg tca tc</u>	all 2'Ome bases	761
arrestor	<u>gcc cta aac aga tgg agg cg</u>	all 2'Ome bases	762
SRT	cggaaagcagttggtgatcgcggcggNH2	3'base 2'Ome, 3' Amine	763
FRET probe	Fcaac(Cy3)gcttcctccg		764
probe	cgc tca cgc ctc cat ctg ttg agg gc NH2	3' Amine	765
invader	cag gtc ctg gaa gga gca ctt a		766
stacker	<u>cat cag ctt ctt tct tct tct cat cc</u>	all 2'Ome bases	767
arrestor	<u>gcc cta aac aga tgg agg cg</u>	all 2'Ome bases	768
SRT	cggaaagcagttggtgatcgcggcggNH2	3'base 2'Ome, 3' Amine	769
FRET probe	Fcaac(Cy3)gcttcctccg		770
probe	cgc tca cgc ctc cat ctg ttg agg NH2	3' Amine	771



invader	cag gtc ctg gaa gga gca ctt a	772
stacker	<u>gcc atc agc ttc ttt gtt ctt gtc atc</u>	773
SRT	cggaagaagcagttggaggcgtagcggfNH2	774
FRET probe	Fcaac(Cy3)gcttctccg	775
probe	ccg tca cgc ctc cca tca gct tcNH2	776
invader	gag cac ttc atc tgt tta ggg a	777
stacker	<u>ttt gtt ctt gtc atc ctc att gcc ac</u>	778
arrestor	<u>gaa gct gat ggg agg cg</u>	779
SRT	cggaagaagcagttggaggcgtagcggfNH2	780
FRET probe	Fcaac(Cy3)gcttctccg	781
probe	ccgcgagatcactcctctgttagggccNH2	782
probe	ccgcgagatcactcctctgttagggccNH2	783
invader	caggtcctggaaggagcacta	784
arrestor	<u>ggccctaaacagatgagtgatcNH2</u>	785
SRT	cggaagaagcagttggtagtcgcggcggfNH2	786
FRET probe	Fcaac(Cy3)gcttctccg	787

all 2'Ome bases
3'base 2'Ome, 3'Amine

3' Amine

all 2'Ome bases
all 2'Ome bases
3'base 2'Ome, 3'Amine

3' Amine
3' Amine

all 2'Ome bases, 3' Amine
3' 2 last base 2' Ome, 3' Amine

hcFOS	ccg tca cgc ctc cag cag gtt ggc NH2	788
probe	gct tga ccc agg gag gg	789
invader	<u>gcc aag gtg ctg gag gcc</u>	790
arrestor	cggaagaagcagttggaggcgtagcggfNH2	791
SRT	Fcaac(Cy3)gcttctccg	792
FRET probe		
probe	ccg tca cgc ctc cag cag gtt gg NH2	793
invader	gct tga ccc agg gag gg	794
stacker	<u>caa tct cgg tct gca aag cag ac</u>	795
arrestor	<u>gcc aag gtg ctg gag gcc</u>	796
SRT	cggaagaagcagttggaggcgtagcggfNH2	797
FRET probe	Fcaac(Cy3)gcttctccg	798
probe	ccg tca cgc ctc tca gca ggt tgg NH2	799
invader	act cta gtt ttt cct tct cct a	800
stacker	<u>caa tct cgg tct gca aag cag ac</u>	801
arrestor	<u>cca acc tgc tga gag gcc</u>	802
SRT	cggaagaagcagttggaggcgtagcggfNH2	803
FRET probe	Fcaac(Cy3)gcttctccg	804

3' Amine

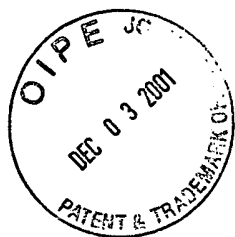
all 2'Ome bases
3'base 2'Ome, 3'Amine

3' Amine

all 2'Ome bases
all 2'Ome bases
3'base 2'Ome, 3'Amine

3' Amine

all 2'Ome bases
all 2'Ome bases
3'base 2'Ome, 3'Amine



hIL-6
probe
probe
invader
arrestor
SRT
FRET probe

ccg ccg aga tca ctc tcc tca ttg aat cct NH2
ccg ccg aga tca ctc tcc tca ttg aat ccNH2
cca aaa gtc cag tga ttt tca cca ggc aag a
agg att caa tga gga aga gtc atc tNH2
cggaggagcagttggtgacgtcgccgNH2
Fcaac(Cy3)gcttctccg

probe
invader
stacker
arrestor
SRT
FRET probe

ccg tca cgc ctc ctc ctc att gaaNH2
cca gtg atg att ttc acc agg caa gta
tcc aga ttg gaa gca tcc atc t
ttc aat gag gag gag gc
cggaagaagcagttgaggcggtgacggtNH2
Fcaac(Cy3)gcttctccg

probe
invader
stacker
arrestor
SRT
FRET probe

ccg tca cgc ctc ctc ctc att gaaNH2
cca gtg atg att ttc acc agg caa gta
atc cag att gga agc atc cat ct
ttc aat gag gag gag gc
cggaagaagcagttgaggcggtgacggtNH2
Fcaac(Cy3)gcttctccg

probe
probe
probe
invader
stacker
arrestor
SRT
FRET probe

ccg tca cgc ctc ctc ctc att gaa tgNH2
ccg tca cgc ctc ctc ctc att gaa taNH2
ccg tca cgc ctc ctc ctc att gaa ttNH2
cca aaa gtc cag tga ttt tca cca ggc aag ta
cagattggaagcattccatct
gattcaatgaggaggaggc
ccaggaaagcaagtggaggcggtgacggu
Fcaac(Z21)gcttctggtg

hMCP-1
probe
probe
invader
arrestor
SRT

ccg tca cgc ctc ctt cgg agt ttg gttNH2
ccg tca cgc ctc ctt cgg agt ttg gtt NH2
ggg ttg tgg agt gag tgt tca agt a
aac cca aac tcc gaa ggc ggc gtc gttNH2
cggaagaagcagttgaggcggtgacggtNH2

3' Amine
3' Amine
all 2'Ome bases, 3' Amine
3' 2 last base, 2'Ome, 3' Amine

3' Amine
all 2'Ome bases
all 2'Ome bases
3'base 2'Ome, 3'Amine

3' Amine
all 2'Ome bases
all 2'Ome bases
3'base 2'Ome, 3'Amine

3' Amine
3' Amine
3' Amine
all 2'Ome bases
all 2'Ome bases
3' 3bases 2'Ome

3' Amine
3' Amine
all 2'Ome bases
3'base 2'Ome, 3'Amine

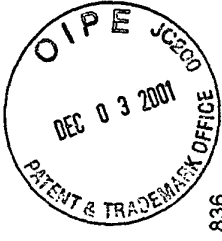
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835



FRET probe	Fcaac(Cy3)gcttctccg	836
probe	gcc gtc acg cct ctt tgg gtt tgc ttg tc NH2	837
probe	gcc gtc acg cct ctt tgg gtt tgc ttg tNH2	838
invader	tggagtgggttcaagcttcggaga	839
arrestor	gacaagcaaaccccaagaggcg	840
SRT	cggaaagacagttggagcgtagcggcNH2	841
FRET probe	Fcaac(Cy3)gcttctccg	842
probe	cct gtc tgc ctg cct tgc gag ttt ggg	843
probe	cct gtc tgc ctg cct tgc gag ttt gg	844
invader	ggg ttg tgg agt gag tgt tca agt a	845
arrestor	ccc.aaa.ctc.cga.agg.cag.cg	846
SRT	cggaggaaagcagttggcagcgagacagNH2	847
SRT	cggaggaaagcagttggcagcgagac(Amino dA)ggNH2	848
SRT	cggaggaaagcagttggcagcg(Amino dA)gacagNH2	849
SRT	cggaggaaagcagttggc(Amino dA)gagagacagNH2	850
SRT	cggaggaaagcagttggcagcg(Amino dA)gac(Amino dA)ggNH2	851
SRT	cggaggaaagcagttggc(Amino dA)gagagac(Amino dA)ggNH2	852
SRT	cggaggaaagcagttggc(Amino dA)gag(Amino dA)gacagNH2	853
FRET probe	Fcaac(Cy3)gcttctccg	854
probe	gcc gtc acg cct ctg gga cac ttg ctg cNH2	855
invader	gcc aca atg gtc ttg aag atc aca gct tct ta	856
arrestor	gca.gca.agt.gtc.cca.gag.gcg.NH2	857
SRT	cggaaagacagttggagcgtagcggcNH2	858
FRET probe	Fcaac(Cy3)gcttctccg	859
probe	ccg tca cgc ctg ctt cgg agt ttg gg NH2	860
invader	ggg ttg tgg agt gag tgt tca agt a	861
arrestor	5'-ggg-aaa-ctc-cga-agg-agg-cg-3'	862
SRT	ccaggaaagcaagttggagcgtagcggg	863
FRET probe	Fcac(Z2')tgcttcgtgg	864
probe	cgc cga gat cac ctt cgg agt ttg ggNH2	865
invader	ggg ttg tgg agt gag tgt tca agt a	866
arrestor	ccc.aaa.ctc.cga.agg.tga.tc	867
SRT	cggaaagacagttggtagatcggcgNH2	868
FRET probe	Fcaac(Cy3)gcttctccg	869

3' Amine
3' Amine
all 2'Ome bases
3'2 bases 2'Ome, 3'Amine

all 2'Ome bases
3' last base 2'Ome, 3' Amine
Amino dA modification
Amino dA modification
Amino dA modification
Amino dA modification
Amino dA modification
Amino dA modification

3' Amine
all 2'Ome bases, 3' Amine
3'2 bases 2'Ome, 3'Amine

3' Amine
all 2'Ome bases
3' 3bases 2'Ome

3' Amine
all 2'Ome bases
3' Amine



probe	aac gag ggc cac ctt cgg agt ttg gg NH2	870
invader	ggg ttg tgg agt gag tgt tca agt a	871
arrestor	ccc aaa ctc cga agg tgc g	872
SRT	cggagaagcagttgtgcgcctcgttaanNH2	873
FRET probe	Fcaac(Cy3)gcttcctccg	874
probe	cgc tca cgc ctc ctt cgg agt ttg g NH2	875
invader	ggg ttg tgg agt gag tgt tca agt a	876
stacker	ggt tgc ttg tcc agg tgg	877
arrestor	cca aac tcc gaa gga ggc g	878
SRT	cggagaagcagttggaggcgtgacggtNH2	879
FRET probe	Fcaac(Cy3)gcttcctccg	880
probe	cgc tca cgc ctc ctt cgg agt ttg NH2	881
invader	ggg ttg tgg agt gag tgt tca agt a	882
stacker	ggt ttg ctt gtc cag gtc g	883
arrestor	cca aac tcc gaa gga ggc g	884
SRT	cggagaagcagttggaggcgtgacggtNH2	885
FRET probe	Fcaac(Cy3)gcttcctccg	886
probe	cgc tca cgc ctc ctt cgg agt ttNH2	887
invader	ggg ttg tgg agt gag tgt tca agt a	888
stacker	ggg ttg gct tgt cca ggt g	889
arrestor	cca aac tcc gaa gga ggc g	890
SRT	cggagaagcagttggaggcgtgacggtNH2	891
FRET probe	Fcaac(Cy3)gcttcctccg	892
probe	cgc tca cgc ctc ctt cgg agt ttg NH2	893
invader	ggg ttg tgg agt gag tgt tca agt a	894
stacker	ggg ttg gct tgt cca ggt ggc g	895
arrestor	cca aac tcc gaa gga ggc g	896
SRT	cggagaagcagttggaggcgtgacggtNH2	897
FRET probe	Fcaac(Cy3)gcttcctccg	898
probe	cgc cga gat cac cgg agt ttg ggNH2	899
invader	ggt gtc gag tga gtc ttc aag tat ta	900
stacker	ttt gct tgt cca ggt ggt cca g	901
arrestor	cta gtc gcc tca aac cc	902
SRT	cggagaagcagttggatcctcgcgcggtNH2	903
FRET probe	Fcaac(Cy3)gcttcctccg	904



hUbluqitin

probe cgc cga gat cac ctt tac att ttc tat cgt
probe cgc cga gat cac ctt tac att ttc tat cgt NH2
invader 5' -cct tcc tta tcc tgg atc ttg gca -3'
arrestor acg ata gaa aat gta aag gta atc
SRT 5'-cgc agt gag aat gag gta atc tgg ggggt-3'
FRET probe 5'-Red-cic-Z21-ttc tca glg cg-3'

3' Amine

all 2'Ome bases
3' last 3 bases 2'Ome

905
906
907
908
909
910

hIL-2

probe gtttttttgctccgactgccNH2
invader cca gca gla aat gct cca gtt gla ga
stacker tag aac ttg aag tag gta c
arrestor caa aga aaa cac agg agg c
SRT ccaggagcaagtgaggcgtagcggu
FRET probe Fcac(Z21)tgcttcgtgg

3' Amine

all 2'Ome bases
all 2'Ome bases
3' 3bases 2'Ome

911
912
913
914
915
916

probe aac gag gcg cac ctg ttt ttt tg NH2
invader cca gca gla aat gct cca gtt gla ga
stacker tag aac ttg aag tag gta c
arrestor caa aga aaa cac agg tgc g
SRT ccaggagcaagtgaggcgtagcggtt
FRET probe Fcac(Z21)tgcttcgtgg

3' Amine

all 2'Ome bases
all 2'Ome bases
3' last 3 bases 2'Ome

917
918
919
920
921
922

probe ccg tca cgc ctc cag ttg tag NH2
invader aaa atc atc tgt aaa tcc agc agt aaa tga
stacker ctg tgt ttt ctt tgt aga ac
arrestor cta caa ctg gag gag gc
SRT ccaggagcaagtgaggcgtagcggu
FRET probe Fcac(Z21)tgcttcgtgg

3' Amine

5' 6 bases 2'Ome
all 2'Ome bases
all 2'Ome bases
3' 3bases 2'Ome

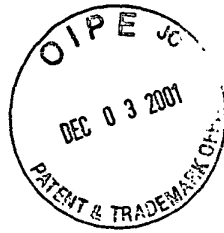
923
924
925
926
927
928

probe aac gag gcg cac ctc cag ttg tag NH2
invader aaa atc atc tgt aaa tcc agc agt aaa tga
stacker ctg tgt ttt ctt tgt aga ac
arrestor cta caa ctg gag gag cg
SRT ccaggagcaagtgaggcgtagcggtt
FRET probe Fcac(Z21)tgcttcgtgg

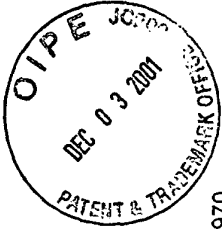
3' Amine

5' 6 bases 2'Ome
all 2'Ome bases
all 2'Ome bases
3' last 3 bases 2'Ome

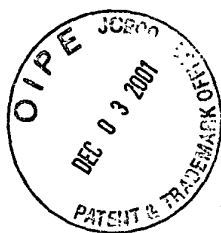
929
930
931
932
933
934



probe	cgc tca cgc ctc ctg tgt ttt ctt tgt aNH2	3' Amine	935
invader	gta aat cca gca gta aat gct cca gtt gta ga		936
stacker	<u>gaa ctt gaa gta ggt gca ctg tt</u>	<u>all 2'Ome bases</u>	937
arrestor	<u>tacaaagaaaaacacagaggcgNH2</u>	<u>all 2'Ome bases, 3' amine</u>	938
SRT	ccaggagcaagtggaggcggaacggu	<u>3' 3bases 2'Ome</u>	939
FRET probe	Fcac(Z21)gcttcgtgg		940
probe	aac gag gcg cac ctg tgt ttt ctt tgt aNH2	3' Amine	941
invader	gta aat cca gca gta aat gct cca gtt gta ga		942
stacker	<u>gaa ctt gaa gta ggt gca ctg tt</u>	<u>all 2'Ome bases</u>	943
arrestor	<u>tac aaa gaa aac aca ggt gcg</u>	<u>all 2'Ome bases</u>	944
SRT	ccaggagcaagtggaggcgctcgttt	<u>3' last 3 bases 2'Ome</u>	945
FRET probe	Fcac(Z21)gcttcgtgg		946
probe	cgc tca cgc ctc ctc cag ttg taa NH2	3' Amine	947
probe	cgc tca cgc ctc ctc cag ttg tat NH2	3' Amine	948
probe	cgc tca cgc ctc ctc cag ttg tac NH2	3' Amine	949
invader	<u>aaa atc atc tgt aaa tcc agc agt aaa tga</u>	<u>5' 6 bases 2'Ome</u>	950
stacker	<u>ctg tgt ttt ctt tgt aga ac</u>	<u>all 2'Ome bases</u>	951
arrestor	<u>cta caa ctg gag gag gc</u>	<u>all 2'Ome bases</u>	952
SRT	ccaggagcaagtggaggcggaacggu	<u>3' 3bases 2'Ome</u>	953
FRET probe	Fcac(Z21)gcttcgtgg		954
probe	gcc gtc acg cct ccc ttc ttg atg NH2	3' Amine	955
invader	ttc tag aca ctg aag atg tt cag ttc tgt gga		956
arrestor	<u>cat gcc caa gaa ggg agg cg NH2</u>	<u>all 2'Ome bases, 3' Amine</u>	957
SRT	cggagagcagctggaggcggaacgNH2	<u>3'2 bases 2'Ome, 3'Amine</u>	958
FRET probe	Fcaac(Cy3)gcttcctccg		959
probe	cgc tca cgc ctc taa ttc cat tca aaa tca tct NH2	3' Amine	960
invader	cat cct ggt gag ttt ggg att ctt gta att tat a		961
stacker	<u>gta aat cca gca gta aat gct cca gNH2</u>	<u>all 2'Ome bases, 3' Amine</u>	962
arrestor	<u>aga tga tt tga atg gaa tta gag gcg NH2</u>	<u>all 2'Ome bases, 3' Amine</u>	963
SRT	cggagagcagctggaggcggaacgNH2	<u>3'2 bases 2'Ome, 3'Amine</u>	964
FRET probe	Fcaac(Cy3)gcttcctccg		965
probe	ccg ccg aga tca cct glg ttt tct ttg ta		966
invader	gta aat cca gca gta aat gct cca gtt gta ga		967
stacker	<u>gaa ctt gaa gta ggt gca ctg tt</u>	<u>All 2' Ome</u>	968
stacker	gaa ctt gaa gta ggt gca ctg tt		969



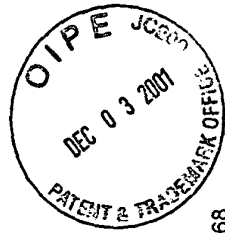
stacker	gaa ctt gaa gta ggt gca cig tt	5' 3bases 2'Ome	970
stacker	gaa ctt gaa gta ggt gca cig tt	5' 6bases 2'Ome	971
arrestor	tac aaa gaa aac aca ggt gat ct	All 2'Ome	972
SRT	cggaggagcagctgtgtgctcgcgcgNH2	3' 2 last base 2'Ome, 3' Amine	973
FRET probe	Fcaac(Cy3)gcttcctccg		974
probe	aac gag gcg cac cct tct tgg gca tgNH2	3' Amine	975
invader	ttc tag aca cig aag atg ttt cag ttc tgt gga		976
arrestor	cat gcc caa gaa ggg tgc gNH2	all 2'Ome bases	977
SRT	cggagaagcagctgtgtgctcgcgcgNH2	3' last 5 bases 2'Ome, 3' Amine	978
FRET probe	Fcaac(Cy3)gcttcctccg		979
probe	aac gag gcg cac taa ttc cat tca aaa tca tct		980
invader	cat cct ggt gag ttt ggg att ctt gta att tat a		981
stacker	gta aat cca gca gta aat gct cca gNH2	all 2'Ome bases, 3' Amine	982
arrestor	aga tga ttt tga atg gaa tta gtg gt NH2	all 2'Ome bases, 3' Amine	983
SRT	cggagaagcagctgtgtgctcgcgcgNH2	3' last 5 bases 2'Ome, 3' Amine	984
FRET probe	Fcaac(Cy3)gcttcctccg		985
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hIL-4			
probe	cct gtc tog ctg cca gtt gtg ttc ttg gag NH2	3' Amine	986
invader	ccc tgc aga agg ttt cct tct a		987
invader	ccc tgc aga tgg ttt cct tct a		988
arrestor	ctc caa gaa cac aac tgg cag cNH2	all 2'Ome bases, 3' Amine	989
arrestor	ctc caa gaa cac aac tgg cag cga NH2	all 2'Ome bases, 3' Amine	990
arrestor	ctc caa gaa cac aac tgg cag cga gNH2	all 2'Ome bases, 3' Amine	991
SRT	cggaggagcagctgtgtgctcgcgcgNH2	3' last base 2'Ome, 3' Amine	992
FRET probe	Fcaac(Cy3)gcttcctccg		993
probe	aac gag gcg cac ctt gga ggc agc aaa NH2	3' Amine	994
probe	aac gag gcg cac ctt gga ggc agc aaNH2	3' Amine	995
invader	aag gtt tcc ttc tca gtt gtt tta		996
arrestor	ctt tgc tgc ctc caa ggt ggc NH2	all 2'Ome bases, 3' Amine	997
SRT	cggaggagcagctgtgtgctcgcgcgNH2	3' last 5 bases 2'Ome, 3' Amine	998
FRET probe	Fcaac(Cy3)gcttcctccg		999
probe	cag tca cgt ctc tgg agg cag caa aga tg NH2	3' Amine	1000
invader	aag gtt tcc ttc tca gtt gtt tta		1001
arrestor	cat ctt tgc tgc ctc cag aga cg NH2	all 2'Ome bases, 3' Amine	1002



SRT	gclactgagatgaaggagacgtgactgtatNH2	3' Amine	1003
FRET probe	Fcttc(Cy3)ctcagtagc		1004
probe	aac gag gcg cac ctt gga ggc agc aaa g NH2	3' Amine	1005
invader	aag gtt tcc ttc tca gtt gtt tta		1006
arrestor	ctt tgc tgc ctc caa ggt ggc NH2	all 2'Ome bases, 3' Amine	1007
SRT	cggaggagacagtggtgcgcctcgtaa	3' last 5 bases 2'Ome	1008
FRET probe	Fcaac(Cy3)gcttcctccg		1009
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mIL-2			
probe	cgc cga gat cac ccc tt agt tt aca aca gtNH2	3' Amine	1010
invader	gaa ttg gca ctc aaa tgt gtt gtc aga ga		1011
arrestor	act gtt gta aaa cta aag ggc gtc atc t NH2	all 2'Ome bases, 3' Amine	1012
SRT	cggaggagcgttggtgactcgcgcgNH2	3' last two bases are 2' Ome , 3' Amine	1013
FRET probe	Fcaac(Cy3)gcttcctccg		1014
probe	tgc cgc cga gat cac ccc tt agt tt aca aca gtNH2	3' Amine	1015
invader	gaa ttg gca ctc aaa tgt gtt gtc aga ga		1016
arrestor	act gtt gta aaa cta aag ggc gtc NH2	all 2'Ome bases, 3' Amine	1017
arrestor	act gtt gta aaa cta aag ggc gtc at NH2	all 2'Ome bases, 3' Amine	1018
arrestor	act gtt gta aaa cta aag ggc gtc at ctnNH2	all 2'Ome bases, 3' Amine	1019
arrestor	act gtt gta aaa cta aag ggc gtc at ctcgNH2	all 2'Ome bases, 3' Amine	1020
SRT	cggaggagcgttggtgactcgcgcgcaNH2	3' Last 2bases 2'Ome, 3' Amine	1021
FRET probe	Fcaac(Cy3)gcttcctccg		1022
probe	gc cgc cga gat cac ccc tt agt tt aca aca gtNH2	3' Amine	1023
probe	c cgc cga gat cac ccc tt agt tt aca aca gtNH2	3' Amine	1024
invader	gaa ttg gca ctc aaa tgt gtt gtc aga ga		1025
arrestor	act gtt gta aaa cta aag ggc gtc at NH2	all 2'Ome bases, 3' Amine	1026
SRT	cggaggagcgttggtgactcgcgcgcaNH2	3' Last 2bases 2'Ome, 3' Amine	1027
FRET probe	Fcaac(Cy3)gcttcctccg		1028
probe	aac gag gcg cac ccc tt agt tt aca aca gt NH2	3' Amine	1029
invader	gaa ttg gca ctc aaa tgt gtt gtc aga ga		1030
arrestor	agtaactgtgttaaaactaaaggggtgcg	all 2'Ome bases, 3' Amine	1031
SRT	cggaggagcagtggtgcgcctcgtaa	3' last 5 bases 2'Ome	1032
FRET probe	Fcaac(Cy3)gcttcctccg		1033
probe	aac gag gcg cac ccc tt agt tt aca aca gt NH2	3' Amine	1034



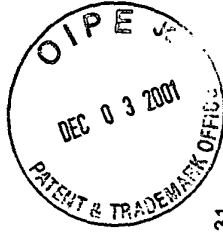
invader	gaa ttg gca ctc aaa tgt gtt gtc aga ga	all 2'Ome bases, 3' Amine	1035
arrestor	agt aac tgt tgt aaa act aaa ggg gtc cg NH2	3' last 5 bases 2'Ome	1036
SRT	cggaggaagcagttggcgccctgtaa		1037
FRET probe	Fcaac(Cy3)gcttcctccg		1038
probe	ccgtcacgcctccctttagttttacaacNH2	3' Amine	1039
invader	gaa ttg gca ctc aaa tgt gtt gtc aga ga		1040
stacker	agt tac tct gat att gct gat gaa att ctc ag	all 2'Ome bases,	1041
arrestor	gtgtaaaactaaagggagggcg	all 2'Ome bases,	1042
SRT	cggaagaagcagttggaggcgtgacggtNH2	3'base 2'Ome, 3'Amine	1043
FRET probe	Fcaac(Cy3)gcttcctccg		1044
probe	cgcgagatcacccctttagttttacaacNH2	3' Amine	1045
invader	gaa ttg gca ctc aaa tgt gtt gtc aga ga		1046
stacker	agt tac tct gat att gct gat gaa att ctc ag	All 2'Ome	1047
arrestor	gtgtaaaactaaagggagggcgc	All 2'Ome	1048
SRT	cggaagaagcagttggagcgtgacggtNH2	3' Amine	1049
FRET probe	Fcaac(Cy3)gcttcctccg		1050
probe	ccgtcacgcctccctttagttttacaacNH2	3' Amine	1051
invader	gaa ttg gca ctc aaa tgt gtt gtc aga ga		1052
stacker	cagttactctgatatgctgatgaaattctca	All 2'Ome	1053
arrestor	gtgtaaaactaaagggagggcg	All 2'Ome	1054
SRT	cggaagaagcagttggaggcgtgacggtNH2	3'base 2'Ome, 3'Amine	1055
FRET probe	Fcaac(Cy3)gcttcctccg		1056
probe	ccgtcacgcctccctttagttttacaacNH2	3' Amine	1057
invader	gaa ttg gca ctc aaa tgt gtt gtc aga ga		1058
stacker	cagttactctgatatgctgatgaaattctca	All 2'Ome	1059
arrestor	gtgtaaaactaaagggagggcg	All 2'Ome	1060
SRT	ccggaagcagttggaggcgtgacggtNH2	3' 2 bases 2'Ome, 3'Amine	1061
FRET probe	Fcaac(Cy3)gcttcgtgg		1062
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mIL-10			
probe	ccg tca cgc ctc ccg tta gct aag at NH2	3' Amine	1063
invader	cga ggt tt cca agg agt tgt tta		1064
stacker	ccc tgg atc aga tt aga gag c	all 2'Ome bases,	1065
arrestor	atc tta gct aac ggg agg cg	all 2'Ome bases,	1066
SRT	cggaagaagcagttggaggcgtgacggtNH2	3'base 2'Ome, 3'Amine	1067



FRET probe	Fcaac(Cy3)gcttcctccg	1068
probe	ccg tca cgc ctc agt tgt ttc cgt tNH2	1069
invader	aga ggt aca aac gag gtt ttc caa ggc	1070
stacker	agc taa gat ccc tgg atc aga ttt aga ga	1071
arrestor	aac gga aac aac tga ggc g	1072
SRT	ccaggaagcaagtggagcgtagcggg	1073
FRET probe	Fcac(Z21)tgcttcgtgg	1074
probe	ccg tca cgc ctc ccg tta gct aNH2	1075
invader	caa acg agg ttt tcc aag gag ttt a	1076
stacker	aga tcc ctg gat cag att tag aga gct c	1077
arrestor	tag cta acg gaa aga ggc g	1078
SRT	ccaggaagcaagtggagcgtagcggg	1079
FRET probe	Fcac(Z21)tgcttcgtgg	1080
probe	ccg tca cgc ctc ccg tta gNH2	1081
invader	aga ggt aca aac gag gtt ttc caa gga ga	1082
stacker	cta aga tcc ctg gat cag att tag aga g	1083
arrestor	cta acg gaa aca agagggcg	1084
SRT	ccaggaagcaagtggagcgtagcggg	1085
FRET probe	Fcac(Z21)tgcttcgtgg	1086
hIFN-γ		
probe	aac gag gcg cac ctt acc aat gcc taa gaa aag agt tNH2	1087
invader	tgc att att ttt ctg tca ctc tcc tct ttc caa tta	1088
arrestor	aac tct ttt ctt agg cat ttt gaa ggt gcg NH2	1089
SRT	cgagggaagcagtggtggcgcctcgttaaNH2	1090
FRET probe	Fcaac(Cy3)gcttcctccg	1091
probe	cag tca cgt ctc tct tca aaa tgc cta aga aaa gag tNH2	1092
invader	tct gca tta ttt ttc tgt cac tct cct ctt tcc aat a	1093
arrestor	act ctt ttc tta ggc att ttg aag aga gac gNH2	1094
SRT	gctactgagatgaaggagacgtgactgtanNH2	1095
FRET probe	Fcttc(Cy3)tcctcaglacg	1096
mIFN-γ		
probe	aac gag gcg cac cct ttt gcc agt tcc NH2	1097



invader	gct ctg cag gat ttt cat gtc acc ata	all 2'Ome bases, 3' Amine	1098
arrestor	gag gaa ctg gca aaa ggg tgc gNH2	all 2'Ome bases, 3' Amine	1099
SRT	gctactgagatgaaggagacgtgactgtatNH2		1100
FRET probe	Fcttc(Cy3)ctcagtagc		1101
probe	aac gag ggc cac cct ttt gcc agt NH2	3' Amine	1102
invader	gct ctg cag gat ttt cat gtc acc ata	all 2'Ome bases	1103
stacker	tcc tcc aga tat cca aga aga gac tc	all 2'Ome bases	1104
arrestor	act ggc aaa agg cgg gc	3' last 5 bases 2'Ome	1105
SRT	cgg agg aaag cag ttg gtc ctc guu aa NH2	3' last 5 bases 2'Ome	1106
SRT	cgg aag aaag cag ttg gtc ctc guu aa NH2		1107
FRET probe	Fcaac(Cy3)gcttcctccg		1108
probe	gcc gca cgc cgt ttt cca gt NH2	3' Amine	1109
invader	gct ctg cag gat ttt cat gtc acc ata	all 2'Ome bases	1110
stacker	tcc tcc aga tat cca aga aga gac tc	all 2'Ome bases	1111
arrestor	act ggc aaa agg cgg gc		1112
SRT	cgg agg aag cag ttg cgg cgt ggc gca NH2		1113
FRET probe	Fcaac(Cy3)gcttcctccg		1114
probe	aac gag ggc cac cct ttt gcc agt tc NH2	3' Amine	1115
invader	gct ctg cag gat ttt cat gtc acc ata	all 2'Ome bases	1116
stacker	ctc cag ata tcc aag aag aga ctc	all 2'Ome bases	1117
arrestor	gaa ctg gca aaa ggg tgc g	3' last 5 bases 2'Ome	1118
SRT	cggaggacagtggtggcgctcgttaaNH2		1119
FRET probe	Fcaac(Cy3)gcttcctccg		1120
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hIL-8			
probe	cgg tca cgc ctc ctt ggc aaa act gca ccNH2	3' Amine	1121
probe	cgg tca cgc ctc ctt ggc aaa act gca cca NH2	3' Amine	1122
invader	ctt tat gca ctg aca tct aag ttc ttt agc act ca		1123
arrestor	tgg tgc agt ttt gcc aag gag ggc gNH2	all 2'Ome bases, 3' Amine	1124
arrestor	tgg tgc agt ttt gcc aag gag ggc tg NH2	all 2'Ome bases, 3' Amine	1125
SRT	cggagaagcagtgaggcgtgacggcNH2	3'2 bases 2'Ome, 3' Amine	1126
FRET probe	Fcaac(Cy3)gcttcctccg		1127
probe	cgg tca cgc ctc cat ctt cac tga ttc ttg gNH2	3' Amine	1128
probe	cgg tca cgc ctc cat ctt cac tga ttc ttg gNH2	3' Amine	1129
invader	agt gtt gaa gta gat ttg ctt gaa gtt tca ctg ga		1130



stacker	gat acc aca gag aat gaa tttt	all 2'Ome bases	1131
arrestor	tcc aag aat cag tga aga tgg agg cg NH2	all 2'Ome bases, 3' Amine	1132
arrestor	tcc aag aat cag tga aga tgg agg cgt gNH2	all 2'Ome bases, 3' Amine	1133
arrestor	g aat cag tga aga tgg agg cg	all 2'Ome bases	1134
SRT	cggagaagcagttggaggcgtgacgcgNH2	3'2 bases 2'Ome, 3' Amine	1135
FRET probe	Fcaac(Cy3)gcttctccg		1136
probe	ccg tca cgc cct tgg ctc aat tt gct NH2	3' Amine	1137
invader	cca ttc aat tcc tga aat taa agt tgg gat att ctc ttg gca		1138
invader	cc tga aat taa agt tgg gat att ctc ttg gca	5' 10 bases are 2'Ome	1139
invader	cc tga aat taa agt tgg gat att ctc ttg gca		1140
arrestor	agg aaa att gag cca agg gag gcg NH2	all 2'Ome bases, 3' Amine	1141
arrestor	agg aaa att gag cca agg gag gcg tgnNH2	all 2'Ome bases, 3' Amine	1142
SRT	cggagaagcagttggaggcgtgacgcgNH2	3'2 bases 2'Ome, 3' Amine	1143
FRET probe	Fcaac(Cy3)gcttctccg		1144
probe	ccg tca cgc ctc cat ctt cac tga ttc ttg NH2	3' Amine	1145
invader	ttc tag caa acc cat tca att cct gaa att aaa gtt cgg ata ttc ta		1146
invader	cc cat tca att cct gaa att aaa gtt cgg ata ttc ta	5' 10 bases 2'Ome	1147
invader	cc cat tca att cct gaa att aaa gtt cgg ata ttc ta		1148
arrestor	cca agg gcc aag gag gcg tNH2		1149
SRT	cggagaagcagttggaggcgtgacgcgNH2	3'2 bases 2'Ome, 3' Amine	1150
FRET probe	Fcaac(Cy3)gcttctccg		1151
probe	ccg tca cgc ctc cat ctt cac tga ttc ttc NH2	3' Amine	1152
invader	agt gtt gaa gta gat ttg ctt gaa gtt tca ctg ga		1153
stacker	ttg gat acc aca gag aat gaa tt	all 2'Ome bases	1154
SRT	cggagaagcagttggaggcgtgacgcgNH2	3'base 2'Ome, 3' Amine	1155
FRET probe	Fcaac(Cy3)gcttctccg		1156
probe	ccg tca cgc ctc cat ctt cac tga tt NH2	3' Amine	1157
invader	agt gtt gaa gta gat ttg ctt gaa gtt tca ctg ga		1158
stacker	ctt gga tac cac aga gaa tga att		1159
SRT	cggagaagcagttggaggcgtgacgcgNH2	3'base 2'Ome, 3' Amine	1160
FRET probe	Fcaac(Cy3)gcttctccg		1161
probe	ccg tca cgc ctc cat ctt cac tga ttc ttg NH2	3' Amine	1162
invader	agt gtt gaa gta gat ttg ctt gaa gtt tca ctg ga		1163
helper	ata-cca-cag-aga-atg-aat-ttt-ttt-atg	all 2'Ome bases	1164
arrestor	tcc aag aat cag tga aga tgg agg cgt gNH2	all 2'Ome bases, 3' Amine	1165



SRT FRET probe	cggaagaagcagttggaggcgtagcggtNH2 Fcaac(Cy3)gcttctccg	3'base 2'Ome, 3'Amine	1166 1167
SRT FRET probe	cggaagaagcagttggtagtctcggcggNH2 Fcaac(Cy3)gcttctccg	3' Amine	1168 1169
SRT FRET probe	cggaagaagcagttggaggcgtagcggtNH2 Fcaac(Cy3)gcttctccg	3'base 2'Ome, 3'Amine	1170 1171
SRT FRET probe	ccaggaagcaagtggaggcgtagcggu Fcaac(Z21)tgctctgtg	3' 3bases 2'Ome	1172 1173
SRT FRET probe	cggaagaagcagttggtagtctcggcggNH2 Fcaac(Cy3)gcttctccg	3' 2 last base 2'Ome, 3' Amine	1174 1175
SRT FRET probe	cggaagaagcagttggaggcgtagcggcNH2 Fcaac(Cy3)gcttctccg	3'2 bases 2'Ome, 3'Amine	1176 1177
SRT FRET probe	ccaggaagcaagtggtagcgcctggtt Fcaac(Z21)tgctctgtg	3' last 3 bases 2'Ome	1178 1179
SRT FRET probe	cggaagaagcagttggtagcgcctgttaaNH2 Fcaac(Cy3)gcttctccg	3' last5 bases 2'Ome	1180 1181
SRT FRET probe	cggaagaagcagttggtagtctcggcggcaNH2 Fcaac(Cy3)gcttctccg	3' Last 2bases 2'Ome, 3' Amine	1182 1183
SRT FRET probe	gctactgagatgaaggagacgtgactgtNH2 Fcttc(Cy3)tcctagtc	3' Amine	1184 1185
SRT FRET probe	ccaggaagcagttggaggcgtagcggtNH2 Fcaac(Cy3)gcttctgtg	3' 2 bases 2'Ome, 3'Amine	1186 1187
h3A4 probe h3A4 invader Capture Sequence	agg agc cac tcc att gga tga agc atg tac aga atc ccc ggt tat tta tgc aga		1188 1189

Set 1



1190
1191

gtg gcg tat cac aga caa tga gag
cct cct tta tat tcc caa gta taa cac tct aa

h3A4 probe
h3A4 invader
Capture Sequence

Set 2/Set 3

1192
1193
1194
1195
1196

AAC GAG GCG CAC CAC AGA CAA TGA GAG
CICICATIGTCTGTGGTGG-NH2
cct cct tta tat tcc caa gta taa cac tct aa
agctcaatgcatgtacagaatccccgg
agctcaatgcatgtacagaatccccgg

h3A4 probe
h3A4 arrestor
h3A4 invader
h3A4 stacking oligo
h3A4 stacking oligo
SRT
FRET Oligo

Set 4

1197
1198
1199
1200

aac gag gcg cac cac aga caa tga gag ag-NH2
ctc tct cat tgt ctg tgg tgc g-NH2
cct cct tta tat tcc caa gta taa cac tct aa
ctc aat gca tgt aca gaa tcc ccg gtt

h3A4 probe
h3A4 arrestor
h3A4 invader
h3A4 stacking oligo
SRT
FRET Oligo

Set 5

1201
1202
1203
1204

aac gag gcg cac cac aga caa tga gag agc t-NH2
agg tct ctc att gtc tgt ggt gcg-NH2
cct cct tta tat tcc caa gta taa cac tct aa
FL-caa-c(cy3)g-ctt-cct-ccg

h3A4 probe
h3A4 arrestor
h3A4 invader
SRT
FRET probe

Set 6

1205
1206
1207
1208

aac gag gcg cac cac aga caa tga gag agc-NH2
gct ctc tca tgg tct gtg gtc cg-NH2
cct cct tta tat tcc caa gta taa cac tct aa
FL-caa-c(cy3)g-ctt-cct-ccg

h3A4 probe
h3A4 arrestor
h3A4 invader
SRT
FRET probe

Set 7/Set 8

1209
1210
1211
1212

aac gag gcg cac cac aga caa tga gag a-NH2
aac gag gcg cac cac aga caa tga gag a
tct ctc att gtc tgt ggt gcg c-NH2
gct caa tgc atg tac aga atc ccc ggt t

h3A4 probe
h3A4 probe
h3A4 arrestor
h3A4 stacking oligo



1213

h3A4 invader
SRT
FRET Oligo

cct cct tta tat tcc caa gta taa cac tct aa

Set 9

1214
1215
1216
1217

h3A4 probe
h3A4 arrestor
h3A4 invader
h3A4 stacking oligo
SRT
FRET Oligo

aac gag gcg cac cac aga caa tga ga-NH2
tct cat tgt ctg tgg tgc gc-NH2
cct cct tta tat tcc caa gta taa cac tct aa
gag ctc aat gca tgt aca gaa tcc ccg

Set 1/Set 2

1218
1219
1220
1221

h3A4 probe
h3A4 probe
h3A4 invader
h3A4 arrestor
SRT

AACGAGGGCGCACCTCTTATCAGAGCTC
AACGAGGGCGCACCTCTTATCAGAGCTC-NH2
ttg tgg agg aaa tta ttg aga aat gtt gat ta
GAGCICIGATAAGAGGGTGG-NH2

Set 1/ Set 2/ Set 3

1222
1223
1224
1225
1226
1227

h3A4 probe
h3A4 arrestor
h3A4 invader
h3A4 stacking oligo
h3A4 stacking oligo
h3A4 stacking oligo
SRT
FRET

ccg tca cgc ctc gcc cca ca - NH2
tgt ggg gcg agg cg
cag cac agg ctg ttg acc atc ata aaa c
cuu-uuc-cau-acu-uuu-uau-gac-auu-c
ctt ttc cag act ttt tat gac att c
ctt ttc cag act ttt tat gac

Set 4/Set 5

1228
1229
1230
1231

h3A4 probe
h3A4 probe
h3A4 invader
h3A4 stacking oligo
SRT
FRET

ccg tca cgc ctc gcc cca ca
ccg tca cgc ctc gcc cca ca - HEX
cag cac agg ctg ttg acc atc ata aaa c
cuu-uuc-cau-acu-uuu-uau-gac-auu-c

Set 6/ Set 7/ Set 8

1232

h3A4 probe

ccg tca cgc ctc gcc cca cc - NH2



1233
1234
1235
1236
1237

h3A4 probe
h3A4 probe
h3A4 arrestor
h3A4 invader
h3A4 stacking oligo
SRT
FRET

cgc tca cgc ctc gcc cca cg - NH2
cgc tca cgc ctc gcc cca ct - NH2
tgt ggg gcg agg cg
cag cac agg ctg ttg acc atc ata aaa c
cuu-uuc-cau-acu-uuu-uau-gac-auu-c

Set 1

1238
1239
1240
1241

h3A4 probe
h3A4 arrestor
h3A4 invader
h3A4 stacking oligo
SRT
FRET

cgc tca cgc ctg atc ata aaa gcc c - NH2
ggg ctt tta tga tca ggc g
cag cac agg ctg ttg acc c
cac act ttt cca tac ttt tta tg

Set 2

1242
1243
1244
1245

h3A4 probe
h3A4 arrestor
h3A4 invader
h3A4 stacking oligo
SRT
FRET

aac gag gcg cac cca ttg gat gaa g - NH2
ctt cat cca atg ggt gcg c
gla cag aat ccc cgg tta ttt atg cag ta
ccc atc ttc att tca gag

Set 1

1246
1247

h3A5 probe
h3A5 invader
Capture Sequence

gig gcg tat cgt gtc taa ttt caa g
aat ggg ttt ttc tgg ttg aag aag tcc ttg a

Set 2/Set 3

1248
1249
1250
1251

h3A5 probe
h3A5 probe
h3A5 arrestor
h3A5 invader
SRT
FRET

AACGAGGCGCACCGTGCTCTAATTTC AAG
AACGAGGCGCACCGTGCTCTAATTTC AAGGG-Pj
CTTGAAATTAGACACGGIGCG-NH2
aat ggg ttt ttc tgg ttg aag aag tcc ttg a

Set 4

1252
1253

h3A5 probe
h3A5 arrestor

AACGAGGCGCACCGTGCTCTAATTTC AAG
CTTGAAATTAGACACGGIGCG-NH2



1254
1255

aat ggg ttt ttc tgg ttg aag aag tcc ttg a
ggg atc tgt gtt tct tta caa ggt

h3A5 invader
h3A5 stacking oligo
SRT
FRET

1256
1257
1258
1259

AACGAGGGCGCACCGTGCTCTAATTTCAAG
ctt gaa att aga cac ggt tct c
ggg ttt tct ggt tga aga agt cct tga
ggg atc tct gtt tct

Set 5
h3A5 probe
h3A5 arrestor
h3A5 invader
h3A5 stacking oligo
SRT
FRET

1260
1261
1262
1263

AACGAGGGCGCACCGTGCTCTAATTTCAAGGG-NH2
CCCTTGAAATTAGACACGGTGCG-NH2
aat ggg ttt ttc tgg ttg aag aag tcc ttg a
FL-caa-c(cy3)g-ctt-cct-ccg

Set 6
h3A5 probe
h3A5 arrestor
h3A5 invader
SRT
FRET probe

1264
1265
1266
1267
1268
1269

aac gag gcg cac cgt gtc taa ttt caa gg-NH2
aac gag gcg cac cgt gtc taa ttt caa gg
cct tga aat tag aca cgg tgc gc-NH2
cct tga aat tag aca cgg tgc gc
aat ggg ttt ttc tgg ttg aag aag tcc ttg a
gga tct gtc ttt ctt tac aag gtt tga agg ag

Set 7/Set 8
h3A5 probe
h3A5 probe
h3A5 arrestor
h3A5 arrestor
h3A5 invader
h3A5 stacking oligo
SRT
FRET

1270
1271
1272
1273

aac gag gcg cac cgt gtc taa ttt caa-NH2
ttg aaa tta gac acc gtc cgc-NH2
aat ggg ttt ttc tgg ttg aag aag tcc ttg a
ggg gat ctc tgc ttt tta aca agg

Set 9
h3A5 probe
h3A5 arrestor
h3A5 invader
h3A5 stacking oligo
SRT
FRET

1274

aac gag gcg cac cgt gtc taa ttt ca - NH2

Set 10
h3A5 probe



1275
1276
1277

h3A5 arrestor
h3A5 invader
h3A5 stacking oligo
SRT
FRET

tga.aat.tag.aca.cgg.tgc.gc
ggg ttt tct ggt tga aga agt cct tga
agg gga tct gtc ttt ct

Set 1

h3A5 probe
h3A5 invader
Capture Sequence

tgg cgt atc tga ccc ttt ggg aat
gaa gag cat aag ttc gaa tca cca cca ta

1278
1279

Set 1

h3A5 probe
h3A5 invader
Capture Sequence

ata cgg ttg gtc ctc tca agt cta
ccc cat tga ttt caa cat ctt tct tgc aac

1280
1281

Set 2/Set 3

h3A5 probe
h3A5 arrestor
h3A5 invader
h3A5 stacking oligo
SRT
FRET

aac gag gcg cac gcg tgt cta att tc - NH2
gaa.att.aga.cac.gcg.tgc.gc
ggg ttt tct ggt tga aga agt cct tc
ccg.ggg.atc.tgt.gtt.tc

1282
1283
1284
1285

h3A5 probe
h3A5 arrestor
h3A5 invader
h3A5 stacking oligo
SRT
FRET

ccg tca cgc ctc gcg tgt cta att tc -NH2
gaa.att.aga.cac.gcg.agg.cg
ggg ttt tct ggt tga aga agt cct tc
ccg.ggg.atc.tgt.gtt.tc

1286
1287
1288
1289

Set 1

h3A5 probe
h3A5 arrestor
h3A5 invader
h3A5 stacking oligo
SRT
FRET

aac gag gcg cag ttc ata cgt tcc -NH2
gga.acg.tat.gaa.ctg.cgc
cca gca cag gga gtt gac ca
cca.cat.ttt.tcc.ata.citt.t

1290
1291
1292
1293

Set 2



1294
1295
1296
1297

h3A5 probe
h3A5 arrestor
h3A5 invader
h3A5 stacking oligo
SRT
FRET

ccg tca cgc ctc ttc ata cgt tcc -NH2
gga acg tat gaa cag gcg
cca gca cag gga gtt gac ca
cca cat ttt tcc ata ctt t

1298
1299
1300
1301
1302
1303
1304

Set 1-Set 4

h3A5 probe
h3A5 probe
h3A5 probe
h3A5 arrestor
h3A5 invader
h3A5 stacking oligo
SRT
FRET

aac gag gcg cac agt tga cct tca
aac gag gcg cac agt tga cct tca
aac gag gcg cac agt tga cct tca - HEX
tga agg tca act gtc cgc
gtg atg gcc agc aca ggg c
tac gtt ccc cac att ttt c
tac gtt ccc cac att ttt c

1305
1306
1307
1308

Set 5

h3A5 probe
h3A5 arrestor
h3A5 invader
h3A5 stacking oligo
SRT
FRET

ccg tca cgc ctc agt tga cct tca
tga agg tca act gag gcg
gtg atg gcc agc aca ggg c
tac gtt ccc cac att ttt c

1309
1310
1311
1312

Set 6

h3A5 probe
h3A5 arrestor
h3A5 invader
h3A5 stacking oligo
SRT
FRET

aac gag gcg cac tcc tct caa gt -NH2
act tga gag gag tgc gc
cca ttg att tca aca tct ttc ttg caa ga
cta ata gca act ggg aat aat c

1313
1314
1315
1316

Set 7

h3A5 probe
h3A5 arrestor
h3A5 invader
h3A5 stacking oligo
SRT

ccg tca cgc ctc tcc tct caa gt - NH2
act tga gag gag agg cg
cca ttg att tca aca tct ttc ttg caa ga
cta ata gca act ggg aat aat c



FRET

Set 8

h3A5 probe aac gag gcg cac agt tga cct tc - NH2
h3A5 arrestor tga agg tca act gtg cgc
h3A5 invader gtg atg gcc agc aca ggg c
h3A5 stacking oligo ata cgt tcc cca cat ttt tc
SRT
FRET

1317
1318
1319
1320

Set 1

h3A7 Probe tgg cgt atc tgg att aaa tct taa aag
h3A7 Invader gac ttt tat tga gag aac gaa tgg atc taa a
Capture Oligo

1321
1322

Set 2

h3A7 Primary Probe AACGAGGCGCACTGGATTAAATCTTAAAAG
h3A7 Invader gac ttt tat tga gag aac gaa tgg atc taa a
h3A7 Arrestor CTTTAAAGATTTTAAATCCAGTGGC-NH2
SRT
FRET

1323
1324
1325

Set 3

h3A7 Primary Probe AACGAGGCGCACTGGATTAAATCTTAAAAG
h3A7 Invader gac ttt tat tga gag aac gaa tgg atc taa a
h3A7 Arrestor CTTTAAAGATTTTAAATCCAGTGGC-NH2
h3A7 Stacking Oligo ctt ctt ggt gtt ttc ca
SRT
FRET

1326
1327
1328
1329

Set 4

h3A7 Probe agg agc cac tca tcc ctt gac t
h3A7 Invader oligo ctt agg gaa atc agg ctc cac tta cgg ta
Capture Oligo

1330
1331

Set 5/Set 6

h3A7 Primary Probe AACGAGGCGCACCTCATCCCTTGACT
h3A7 Primary Probe AACGAGGCGCACCTCATCCCTTGACT-NH2
h3A7 Arrestor AGTCAAGGATGAGGTCG-NH2
h3A7 Invader oligo ctt agg gaa atc agg ctc cac tta cgg ta

1332
1333
1334
1335



SRT
FRET

Set 7 - Set 10

h3A7 Primary Probe
h3A7 Arrestor
h3A7 Invader oligo
h3A7 Stacking Oligo
h3A7 Stacking Oligo
h3A7 Stacking Oligo
h3A7 Stacking Oligo

SRT
FRET

1336
1337
1338
1339
1340
1341
1342

Set 11

h3A7 Primary Probe
h3A7 Primary Probe
h3A7 Arrestor
h3A7 Invader oligo
h3A7 Stacking Oligo

SRT
FRET

1343
1344
1345
1346
1347

Set 1

h3A7 Probe
h3A7 Invader
Capture Sequence

1348
1349

Set 2

h3A7 Primary Probe
h3A7 Invader
h3A7 Arrestor

SRT
FRET

1350
1351
1352

Set 3

h3A7 Primary Probe
h3A7 Invader
h3A7 Arrestor
h3A7 Stacking Oligo

1353
1354
1355
1356



SRT
FRET

Set 1

h3A7 probe
h3A7 arrestor
h3A7 invader
h3A7 stacking oligo
SRT
FRET

1357
1358
1359
1360

Set 2 - Set 4

h3A7 probe
h3A7 probe
h3A7 probe
h3A7 arrestor
h3A7 invader
h3A7 stacking oligo
SRT
FRET

1361
1362
1363
1364
1365
1366

Set 1

h3A7 probe
h3A7 arrestor
h3A7 invader
h3A7 stacking oligo
SRT
FRET

1367
1368
1369
1370

Set 2

h3A7 probe
h3A7 arrestor
h3A7 invader
h3A7 stacking oligo
SRT
FRET

1371
1372
1373
1374

Set 1

h3A7 probe
h3A7 arrestor

1375
1376



1377
1378

h3A7 invader gga aat cag gct cca ctt acg gtc a
h3A7 stacking oligo act cag cct tta gaa caa tg
SRT
FRET

Set 1
h3A7 probe ccg tca cgc ctc laa agt aat ttg agg tc -NH2
h3A7 arrestor gac ctc aaa tta ctt tag agg cg
h3A7 invader cgt ctt cat ttc agg gtt cta tti ga
h3A7 stacking oligo tct ggt gtt ctg gg
SRT
FRET

1379
1380
1381
1382

Set 2
h3A7 probe aac gag gcg cac tea agt aat ttg agg tc -NH2
h3A7 arrestor gac ctc aaa gga ctt tag tgc gc
h3A7 invader cgt ctt cat ttc agg gtt cta tti ga
h3A7 stacking oligo tct ggt gtt ctg gg
SRT
FRET

1383
1384
1385
1386

Set 1
r4A1 Probe tgg-cgt-ata-tag-gct-ttg-ctt-cc
r4A1 Invader ttc atg tag tca ggg tca tag aca att aag a
Capture Sequence

1387
1388

Set 2
r4A1 Primary Probe AACGAGGCGCACTAGGCTTTGCTTCC
r4A1 Arrestor GGAAGCAAAGCCTAGTGCG-NH2
r4A1 Arrestor gga agc aaa gcc tag tgc gc-NH2
r4A1 Invader ttc atg tag tca ggg tca tag aca att aag a
FRET Probe 1

1389
1390
1391
1392

Set 3
r4A1 Primary Probe aac gag gcg cac tag gct ttg ctt ccc-NH2
r4A1 Arrestor ggg aag caa agc cta gtc cgc-NH2
r4A1 Invader ttc atg tag tca ggg tca tag aca att aag a
SRT
FRET Probe 1

1393
1394
1395



Set 4			
r4A1 Primary Probe	aac gag gcg cac tag gct ttg ctt c-NH2	1396	
r4A1 Arrestor	<u>gaa_gca_aag_cct_agt_gcg_c</u>	1397	
r4A1 Stack	ccc aga acc atc gag gaa agg c	1398	
r4A1 Invader	ttc atg tag tca ggg tca tag aca att aag a	1399	
SRT			
FRET Probe 1			
Set 5			
r4A1 Primary Probe	aac gag gcg cac tag gct ttg ctt-NH2	1400	
r4A1 Arrestor	aag caa agc cta gtg cgc-NH2	1401	
r4A1 Invader	ttc atg tag tca ggg tca tag aca att aag a	1402	
r4A1 Stack	ccc cag aac cat cga gga aag g	1403	
r4A1 Stack	<u>ccc_cag_aac_cat_cga_gga_aag_g</u>	1404	
SRT			
FRET Probe 1			
Set 6			
r4A1 Primary Probe	aac gag gcg cac tag gct ttg ct-NH2	1405	
r4A1 Primary Probe	aac gag gcg cac tag gct ttg ct - HEX	1406	
r4A1 Probe	aac gag gcg cac tag gct ttg ct	1407	
r4A1 Arrestor	<u>agg_aaa_gcc_tag_tgc_gc-NH2</u>	1408	
r4A1 Arrestor	<u>agg_aaa_gcc_tag_tgc_gc</u>	1409	
r4A1 Invader	ttc atg tag tca ggg tca tag aca att aag a	1410	
r4A1 Stack	tcc cca gaa cca tgc agg aaa gg	1411	
r4A1 Stack	<u>tcc_cca_gaa_cca_tgc_agg_aaa_gg</u>	1412	
SRT			
FRET Probe 1			
Set 1			
r4A1 Probe	ata cgg ttg gtc ttg acc tgc c	1413	
r4A1 Invader	agg aga tat gtt gaa aga ttt cta tag agg ac	1414	
Capture Sequence			
Set 2			
r4A1 Primary Probe	AACGAGGGCGCACGTCCTTGACCTGCC	1415	
r4A1 Arrestor	<u>GGCAGGICAAAGACGIGCG-NH2</u>	1416	
r4A1 Invader	agg aga tat gtt gaa aga ttt cta tag agg ac	1417	



SRT
FRET Probe 1

Set 3

r4A1 Primary Probe AACGAGGCGCACGCTCTTGACCTGC-Pi
r4A1 Arrestor GGCAGGTCAAGACGTGCG-NH2
r4A1 Invader agg aga tat gtt gaa aga ttt cta tag agg ac
SRT
FRET Probe 1

1418
1419
1420

Set 1

r4A1 Probe tgg cgt atc tta gat gga gta agg a
r4A1 Invader att cct cat aat tca aaa ggg act tag tag gt

1421
1422

Set 2

r4A1 Primary Probe AACGAGGCGCACCTTAGATGGAGTAAGGA
r4A1 Arrestor TCCTTACTCCATCTAAGTGCG-NH2
SRT
FRET Probe 1

1423
1424

Set 1

r4A1 Primary Probe aac gag gcg cac tgg ata ccc ttg gg-NH2
r4A1 Arrestor ccc aag ggt atc cag tgc gc-NH2
r4A1 Invader ggt gga gac cat aaa tgg aga gtg tga cta
SRT
FRET Probe 1

1425
1426
1427

Set 1

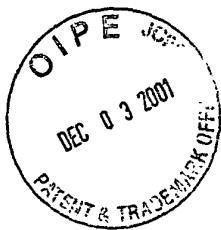
r4A2 Probe aac gag gcg cac agg tgt ctg gag taa aag-NH2
r4A2 Arrestor ctt tta ctc cag aca cct gtc cgc-NH2
r4A2 Invader gtc cac gca caa gct ggg ac
SRT
FRET Probe 1

1428
1429
1430

Set 1

r4A2 Probe aac gag gcg cac aga agg ccc ctt-NH2
r4A2 Arrestor aag ggg cct tct gtc cgc-NH2
r4A2 Invader cct tga aca gca cca gaa ata gac tga gca c
r4A2 stacking oligo gga aga acc cag aga cac cat cc
SRT

1431
1432
1433
1434



FRET Probe 1

Set 2

r4A2 Probe
r4A2 Arrestor
r4A2 Invader
SRT
FRET Probe 1

ccg tca cgc ctc aga agg ccc ctt-NH2
aag ggg cct tct gag ggc-NH2
cct tga aca gca cca gaa ata gac tga gca c

1435
1436
1437

Set 3

r4A2 Probe
r4A2 Arrestor
r4A2 Invader
SRT
FRET Probe 1

aac gag gcg cac aga agg ccc ctt g-NH2
caa ggg gcc ttc tct ggc c-NH2
cct tga aca gca cca gaa ata gac tga gca c

1438
1439
1440

Set 4

r4A2 Probe
r4A2 Probe
r4A2 Probe
r4A2 Arrestor
r 4A2 Arrestor
r4A2 Invader
SRT
FRET Probe 1

aac gag gcg cac aga agg ccc ctt gg-NH2
aac gag gcg cac aga agg ccc ctt
aac gag gcg cac aga agg ccc ctt - HEX
cca agg ggc ctt ctg tgc gc-NH2
aag ggg cct tct gtc cgc
cct tga aca gca cca gaa ata gac tga gca c

1441
1442
1443
1444
1445
1446

Set 1

r4A3 Probe
r4A3 Arrestor
r4A3 Invader
SRT
FRET Probe 1

aac gag gcg cac tfg aca gag tcc gc-NH2
ggg gac tct gtc aag tgc gc-NH2
gct tct ccc att tgt cta gca tta taa

1447
1448
1449

Set 2

r4A3 Probe
r4A3 Arrestor
r4A3 Invader
r4A3 stacking oligo
SRT
FRET Probe 1

aac gag gcg cac tfg aca gag tcc g-NH2
ggg act ctg tca agt ggc c-NH2
gct tct ccc att tgt cta gca tta taa
cca tga ttt tga cat agg gtt tga gga tg

1450
1451
1452
1453



Set 3
r4A3 Probe
r4A3 Probe
rCYP 4A3 Probe
r4A3 Arrestor
rCYP 4A3 Arrestor
r4A3 Invader
r4A3 stacking oligo
SRT
FRET Probe 1

aac gag gcg cac ttg aca gag tcc-NH2
aac gag gcg cac ttg aca gag tcc
aac gag gcg cac ttg aca gag tcc - HEX
gga ctc tgt caa gta cgc-NH2
gga ctc tgt caa gta cgc
gct tct ccc att tgt cta gca tta taa
gcc atg att ttg aca tag ggt ttg agg atg

1454
1455
1456
1457
1458
1459
1460

Set 1
r2B1 probe
r2B1 invader
Capture Sequence

cgg agc ctc tgc ggt cat caa g
tgg ata act gca tca gta tat ggc att tta a

1461
1462

Set 2/ Set 3
r2B1 probe
r2B1 probe
r2B1 invader
Capture Sequence

gtg-gcg-tat-ctg-cgg-tca-tca-ag
gtg-gcg-tat-ctg-cgg-tca-tca-a
tgg ata act gca tca gta tat ggc att tta a

1463
1464
1465

Set 4
r2B1 probe
r2B1 invader
Capture Sequence

tg-gcg-tat-ctg-cgg-tca-tca-a
tgg ata act gca tca gta tat ggc att tta a

1466
1467

Set 5 - Set 7
r2B1 probe
r2B1 arrestor
r2B1 arrestor
r2B1 arrestor
r2B1 invader
SRT
FRET

aac-gag-gcg-cac-ctg-cgg-tca-tca-a
ttg-atg-acc-gca-ggt-gcg-cc-NH2
ttg-atg-acc-gca-ggt-gcg-cc-Pi
ttg-atg-acc-gca-ggt-gcg-cc-OH
tgg ata act gca tca gta tat ggc att tta a

1468
1469
1470
1471
1472

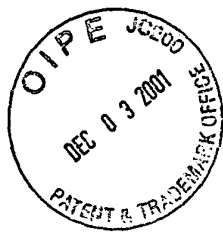
Set 8
r2B1 probe

aac-gag-gcg-cac-ctg-cgg-tca-tca-a

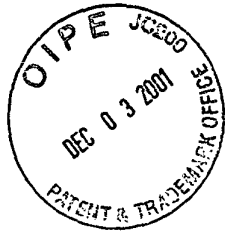
1473



r2B1 arrestor	ttg-atg-acc-gca-ggt-gcg-cc-Pi	1474
r2B1 invader	tgg ata act gca tca glg tat ggc att tta a	1475
r2B1 stacker	ggg ttg gta gcc tgt glg agc cga t	1476
SRT		
FRET		
Set 9		
r2B1 probe	aac-gag-gcg-cac-cig-cgg-tca-tca-a-NH2	1477
r2B1 arrestor	ttg-atg-acc-gca-ggt-gcg-NH2	1478
r2B1 invader	tgg ata act gca tca glg tat ggc att tta a	1479
SRT		
FRET		
Set 10		
r2B1 probe	ggc-aac-gag-gca-cac-cig-cgg-tca-tca-ag-Pi	1480
r2B1 arrestor	ttg-atg-acc-gca-ggt-gcg-cc-Pi	1481
r2B1 invader	tgg ata act gca tca glg tat ggc att tta a	1482
SRT		
FRET		
Set 11		
r2B1 probe	aac gag ggg cac cig cgg tca tca ag-NH2	1483
r2B1 arrestor	ctt gat gac cgc agg tgc c-NH2	1484
r2B1 invader	tgg ata act gca tca glg tat ggc att tta a	1485
SRT		
FRET		
Set 12		
r2B1 probe	aac gag gcg cac cig cgg tca tca agg-NH2	1486
r2B1 arrestor	ccf tga tga ccg cag gtc cg-NH2	1487
r2B1 invader	tgg ata act gca tca glg tat ggc att tta a	1488
SRT		
FRET		
Set 13		
r2B1 probe	atg acg tga cag acc tgc ggt cat caa g-NH2	1489
r2B1 arrestor	ctt gat gac ccg agg tct gt-NH2	1490
r2B1 invader	tgg ata act gca tca glg tat ggc att tta a	1491
SRT		
FRET		



Set 14	aac gag gcg cac ctg agg tca tca a-NH2	1492
r2B1 probe	<u>ttg atg acc tca ggt cgc</u> -NH2	1493
r2B1 arrestor	tgg ata act gca tca gtg tat ggc att tta a	1494
r2B1 invader		
SRT		
FRET		
Set 15	cag tca cgt ctg ctg cgg tca tca ag-NH2	1495
r2B1 probe	<u>ctt gat gac cgc agg aga cg</u> -NH2	1496
r2B1 arrestor	tgg ata act gca tca gtg tat ggc att tta a	1497
r2B1 invader		
SRT		
FRET		
Set 16	cag tca cgt ctg act gcg gtc atc aag-NH2	1498
r2B1 probe	gig gat aac tgc atc agt gla tgg cat ttt c	1499
r2B1 invader	<u>ctt gat gac cgc agt gag acg</u> -NH2	1500
r2B1 arrestor		
SRT		
FRET		
Set 17	cag tca cgt ctg act gcg gtc atc aa-NH2	1501
r2B1 probe	<u>ttg atg acc gca gtg aga cg</u> -NH2	1502
r2B1 arrestor	gig gat aac tgc atc agt gla tgg cat ttt c	1503
r2B1 invader	ggg ttg gla gcc tgt gtg agc cga t	1504
r2B1 stacker		
SRT		
FRET		
Set 18	cag tca cgt ctg act gcg gtc atc a-NH2	1505
r2B1 probe	<u>tga tga cgc cag tga gac g</u> -NH2	1506
r2B1 arrestor	gig gat aac tgc atc agt gla tgg cat ttt c	1507
r2B1 invader	agg gtt ggt agc ctg tgt gag cag a	1508
r2B1 stacker		
SRT		
FRET		
Set 19	cag tca cgt ctg act gcg gtc atc aag-NH2	1509
r2B1 probe		



1510
1511
1512

ctt gat gac cgc agt gag acg-NH2
gig gat aac tgc atc agt gla tgg cat ttt c
ggg tgg tag cct gtg tga gcc gat c

r2B1 arrestor
r2B1 invader
r2B1 stacker
SRT
FRET

1513
1514
1515
1516

cag tca cgt ctc act gcg gtc atc-NH2
atg acc gca gtc aga cg-NH2
gig gat aac tgc atc agt gla tgg cat ttt c
caa ggg ttg gla gcc tgt gtg agc c

Set 20
r2B1 probe
r2B1 arrestor
r2B1 invader
r2B1 stacker
SRT
FRET

1517
1518
1519
1520

ccg tca cgc ctc act gcg gtc atc a-NH2
tga tga ccg cag tga gcc g-NH2
gig gat aac tgc atc agt gla tgg cat ttt c
agg gtt ggt agc ctg tgt gag ccg a

Set 21
r2B1 probe
r2B1 arrestor
r2B1 invader
r2B1 stacker
SRT
FRET

1521
1522
1523
1524

ccg tca cgc ctc act gcg gtc atc-NH2
gat gac cgc agt gag ccg-NH2
gig gat aac tgc atc agt gla tgg cat ttt c
aag ggt tgg tag ccg gtg tg

Set 22
r2B1 probe
r2B1 arrestor
r2B1 invader
r2B1 stacker

1525
1526
1527
1528
1529

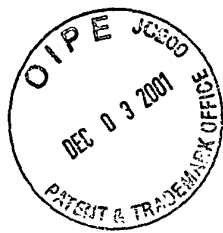
ccg tca cgc ctc act gcg gtc atc-NH2
ccg tca cgc ctc act gcg gtc at
atg acc gca gtc agg cg-NH2
gig gat aac tgc atc agt gla tgg cat ttt c
caa ggg ttg gla gcc tgt gtg agc c

Set 23
r2B1 probe
r2B1 probe
r2B1 arrestor
r2B1 invader
r2B1 stacker
SRT
FRET

1530
1531

atg gtc tct ttg gtc act ctg tgt ggt aca
aac-gag-gcg-cac-tcc-aat-agg-gac-aag

Set 1
r2B1 invader
r2B1 probe



1532

r2B1 arrestor ctt-gtc-cct-att-gga-gtg-cgc-c

SRT
FRET

Set 1

r2B1 probe gcg gcg tac agc cgg tgt gag c
r2B1 invader cat ttt act gcg gtc atc aag ggt tgg tc
Capture Sequence

1533
1534

Set 2

r2B1 probe tgg cgt atg agc cgg tgt gag c
r2B1 invader cat ttt act gcg gtc atc aag ggt tgg tc
Capture Sequence

1535
1536

Set 3

r2B2 invader gga tga ctg cat cag tgt atg gca ttt tgc
r2B2 probe aac-gag-gcg-cac-gta-cga-tca-tca-agg
r2B2 arrestor cct-tga-tga-tcg-tac-gtg-cgc-c-NH2
SRT
FRET

1537
1538
1539

Set 4

r2B2 invader atg gtg tct ttg gtg act ctg tgt ggt aac
r2B2 probe tgg cgt atg acc aat tgg ggc aa
r2B2 stacker gat ctg caa atc tct gaa tct cgt gga tg
r2B2 invader stacker tct tgg aga gca ggt acc ctg gga ac

1540
1541
1542
1543

Set 5

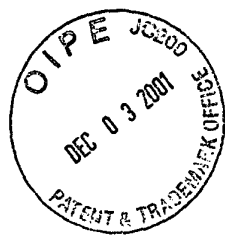
r2B2 probe tgg cgt atg acc aat tgg ggc aag
r2B2 invader atg gtg tct ttg gtg act ctg tgt ggt aac
r2B2 stacker atc tgc aaa tct ctg aat ctg ggt gat ga
r2B2 invader stacker tct tgg aga gca ggt acc ctg gga ac

1544
1545
1546
1547

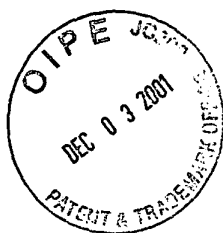
Set 6

r2B2 probe aac-gag-gcg-cac-acc-aat-tgg-ggc-aag
r2B2 probe aac gac gcg cac acc aat tgg ggc aag
r2B2 arrestor ctt-gcc-cca-att-ggt-gtg-cgc-c-NH2
r2B2 invader atg gtg tct ttg gtg act ctg tgt ggt aac
SRT
FRET

1548
1549
1550
1551



Set 4	aac-gag-gcg-cac-acc-aat-tgg-ggc-aag-Pi	1552
r2B2 probe	ctt-gcc-cca-att-ggt-gtg-cgc-c-Pi	1553
r2B2 arrestor	atg gtg tct ttg glg act ctg tgt ggt aac	1554
r2B2 invader		
SRT		
FRET		
Set 5	ctt-gcc-cca-att-ggt-gtg-cg-NH2	1555
r2B2 arrestor	aac-gag-gcg-cac-acc-aat-tgg-ggc-aag-NH2	1556
r2B2 probe	atg gtg tct ttg glg act ctg tgt ggt aac	1557
r2B2 invader		
r2B2 stacker	atc tgc aaa tct ctg aat ctc glg gat ga	1558
SRT		
FRET		
Set 6	ggc-aac-gag-gca-cac-caa-ttg-ggg-caa-g	1559
r2B2 probe	ctt-gcc-cca-att-ggt-gtg-cgc-c-NH2	1560
r2B2 arrestor	atg gtg tct ttg gtg act ctg tgt ggt aac	1561
r2B2 invader		
SRT		
FRET		
Set 7	aac gag gcg cac acc aat tgg ggc aag atc-NH2	1562
r2B2 probe	gat-ctt-gcc-cca-att-ggt-gtg-cg-NH2	1563
r2B2 arrestor	atg gtg tct ttg gtg act ctg tgt ggt aac	1564
r2B2 invader		
SRT		
FRET		
Set 8	aac gag gcg cac acc aat tgg ggc aag aag-NH2	1565
r2B2 probe	ctt-gcc-cga-att-ggt-gtg-cg-NH2	1566
r2B2 arrestor	atg gtg tct ttg gtg act ctg tgt ggt aac	1567
r2B2 invader		
r2B2 stacker	atc tgc aaa tct ctg aat ctc glg gat ga	1568
SRT		
FRET		
Set 9	cag tca cgt ctc atg gtg gcc tgt g-NH2	1569
r2B2 probe		



r2B2 invader
r2B2 arrestor
SRT
FRET

gla tgg cat ttt ggt acg atc atc aag ggc
cac agg cca cca tga gac g-NH2

1570
1571

Set 10

r2B2 probe
r2B2 invader
r2B2 arrestor
r2B2 stacker
SRT
FRET

cag tca cgt ctc aga gcc aat cac ctg-NH2
cga tca tca agg gat ggt ggc ctg tgc
cag gtc att ggc tct gag acg-NH2
atc aat ctc ctt ttg gac ttt ctc tgc g

1572
1573
1574
1575

Set 11

r2B2 probe
r2B2 invader
r2B2 arrestor
r2B2 stacker
SRT
FRET

cag tca cgt ctc aga gcc aat cac ct-NH2
cga tca tca agg gat ggt ggc ctg tgc
agg tga ttg gct ctg aga cg-NH2
gat caa tct cct ttt gga ctt tct ctg c

1576
1577
1578
1579

Set 12

r2B2 probe

FAM-cag tca cgt ctc aga gcc aat cac ct-NH2

1580

Set 13 / Set 14

r2B2 probe
r2B2 arrestor
r2B2 invader
r2B2 stacker
r2B2 stacker
SRT
FRET

cag tca cgt ctc aga gcc aat cac c-NH2
ggt gat tgg ctc tga gac g-NH2
cga tca tca agg gat ggt ggc ctg tgc
gat caa tct cct ttt gga ctt tct ctg c
tga tca atc tcc ttt tgg act ttc tct gc

1581
1582
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1585

Set 15

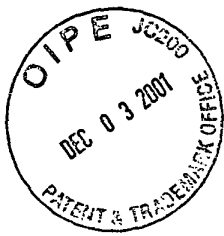
r2B2 probe
r2B2 arrestor
r2B2 stacker
r2B2 invader
SRT
FRET

cag tca cgt ctc aga gcc aat cac-NH2
gtg att ggc tct gag acg-NH2
ctg atc aat ctc ctt ttg gac ttt ctc tgc g
cga tca tca agg gat ggt ggc ctg tgc

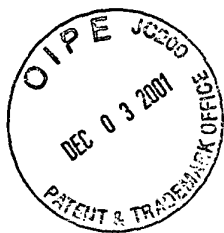
1586
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1589



Set 16			
r2B2 probe	cag tca cgt ctc aga ggc aat cac ct-NH2	1590	
r2B2 arrestor	agg tga ttg cct ctg aga cg-NH2	1591	
r2B2 invader	cga tca tca agg gat ggt ggc ctg tgc	1592	
r2B2 stacker	gat caa tct cct ttt gga ctt tct ctg c	1593	
SRT			
FRET			
Set 17			
r2B2 probe	cag tca cgt ctc aga ggc aat cac ctg-NH2	1594	
r2B2 arrestor	cag gtg att gcc tct gag acg-NH2	1595	
r2B2 invader	cga tca tca agg gat ggt ggc ctg tgc	1596	
r2B2 stacker	atc aat ctc ctt ttg gac ttt ctc tgc g	1597	
SRT			
FRET			
Set 18			
r2B2 probe	cag tca cgc ctc aga gcc aat cac ct-NH2	1598	
r2B2 arrestor	agg tga ttg gct ctg agg cg-NH2	1599	
r2B2 invader	cga tca tca agg gat ggt ggc ctg tgc	1600	
r2B2 stacker	gat caa tct cct ttt gga ctt tct ctg c	1601	
SRT			
FRET			
Set 19			
r2B2 probe	ccg tca cgc ctc aga gcc aat cac c-NH2	1602	
r2B2 arrestor	ggg gat tgg ctc tga ggc g-NH2	1603	
r2B2 invader	cga tca tca agg gat ggt ggc ctg tgc	1604	
r2B2 stacker	tga tca atc tcc ttt tgg act ttc tct gc	1605	
SRT			
FRET			
Set 20-21			
r2B2 probe	ccg tca cgc ctc aga gcc aat cac-NH2	1606	
r2B2 probe	ccg tca cgc ctc aga gcc aat cac	1607	
r2B2 arrestor	gtg att ggc tct gag gcg-NH2	1608	
r2B2 invader	cga tca tca agg gat ggt ggc ctg tgc	1609	
r2B2 stacker	ctg atc aat ctc ctt ttg gac ttt ctc tgc g	1610	



Set 22	cag tca cgt ctc atg gtc aaa gla ctg tgg-NH2	1611
r2B2 probe	gga agt gct cag gat tga agg tgt ctg gc	1612
r2B2 invader	cca cag tac ttt gac cat gag acg-NH2	1613
r2B2 arrestor		
SRT		
FRET		
Set 23	aac gag gcg cac atg gtc aaa gla ctg tgg-NH2	1614
r2B2 probe	cca cag tac ttt gac cat gtc cgc-NH2	1615
r2B2 arrestor	gga agt gct cag gat tga agg tgt ctg gc	1616
r2B2 invader		
SRT		
FRET		
r2B2 probe	cat acg gtt ggg oct gtg aga gc	1617
r2B2 invader	cat ttt ggt acg atc atc aag gga tgg tc	1618
r3A1 probe	agg agc cac ggg tcc caa atc	1619
r3A1 probe	FL-agg agc cac ggg tcc caa atc	1620
r3A1 invader	tcc cct gtt tct tga aaa gtc cat gtg tga	1621
r3A1 probe	F-tcg cgt agt cgg gtc cca aat c	1622
r3A1 probe	cat-ctt-cgc-gga-cgg-gtc-cca-aat-c	1623
r3A1 arrestor	gat-ttg-gga-ccc-ggt-gcg-cc-NH2	1624
r3A1 probe	aac-gag-gcg-cac-cgg-gtc-cca-aat-c-NH2	1625
r3A1 probe	cat-ctt-cgc-gga-cgg-gtc-cca-aat-c - NH2	1626
r3A1 arrestor	gga ttt ggg acc cgt cgg cga - NH2	1627
r3A1 arrestor	gga-ttt-ggg-acc-cgt-cgg-cg -NH2	1628
r3A1 arrestor	gga ttt ggg acc cgt cgg c - NH2	1629
r3A1 arrestor	gga ttt ggg acc cgt cgg - NH2	1630
r3A1 arrestor	gat-ttg-gga-ccc-ggt-gcg-c-NH2	1631
r3A1 arrestor	gat-ttg-gga-ccc-ggt-gcg-NH2	1632
r3A1 arrestor	gat-ttg-gga-ccc-ggt-gc-NH2	1633
r3A1 arrestor	gat-ttg-gga-ccc-ggt-gcg-cc-NH2	1634
r3A1 arrestor	gat-ttg-gga-ccc-ggt-gcg-cct-c-NH2	1635
r3A1 probe		
r3A1 probe		
r3A1 probe	aac gag gcg cac cgg gtc oca aat c-Pi	1636



r3A1 invader
r3A1 probe
r3A1 arrestor
r3A1 probe
r3A1 arrestor
r3A1 probe
r3A1 arrestor
r3A1 stacker
r3A1 probe
r3A1 arrestor
r3A1 stacker
r3A1 probe
r3A1 arrestor
r3A1 stacker
r3A1 probe
r3A1 arrestor
r3A1 probe
r3A1 arrestor
r3A1 stacker
r3A1 probe

tcc cct gtt tct tga aaa gtc cat gtc tga
aac gag gcg cac cgg gtc cca aat c-NH2
gat ttg gga ccc ggt gcg-NH2
aac gag gcg cac cgg gtc cca aat c-NH2
gga ttg ggc acc cgg tgc gc-NH2
aac gag gcg cac cgg gtc cca aat-NH2
att tgg gac ccc gtc gcg-NH2
ccg tag agg agc acc agg acg
aac gag gcg cac cgg gtc cca aa-NH2
ttt ggg acc cgg tgc gc-NH2
tcc gta gag gag cac cag ga
cag tca cgt ctc cgg gtc cca aa-NH2
ttt ggg acc cgg aga cg-NH2
tcc gta gag gag cac cag ga
ccg tca cgc ctc cgg gtc cca aa-NH2
ttt ggg acc cgg agg cg-NH2
tcc gta gag gag cac cag ga
aac gag gcg cac cgg gtc cca-NH2
tgg gac ccc gtc gcg-NH2
ccg tca cgc ctc cgg gtc cca-NH2
tgg gac ccc gag gcg-NH2
aat ccg tag agg agc acc agg
aac gag gcg cac cgg gtc cca

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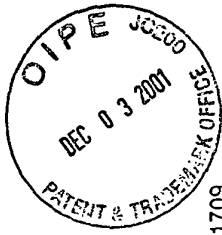
r3A2 invader
r3A2 invader
r3A2 probe
r3A2 probe
r3A2 probe
r3A2 arrestor
r3A2 arrestor
r3A2 probe
r3A2 probe
r3A2 arrestor
r3A2 probe
r3A2 arrestor

ttc ctt gtt tct taa aaa ttc cat gtc taa
att ttt cga tac ttt tia tag cac tcc atc
tgg cgt atc tgg gtt cca agt c
aac gag gcg cac gtc aaa tct ccc taa
aac-gag-gcg-cac-tgg-gtt-cca-agt-c
tia ggg aga ttt gac gtc gcg c - NH2
gac-ttg-gaa-ccc-agt-gcg-cc-NH2
aac gag gcg cac tgg gtt cca agt c
aac-gag-gcg-cac-tgg-gtt-cca-agt-c-Pi
gac ttg gaa ccc agt gcg-NH2
aac gag gcg cac tgg gtt cca agt cg-NH2
cga ctt gga acc cag tgc gc-NH2
aac gag gcg cac aac cat cca gtt cta ta-NH2

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1673



r3A2 invader	gga alc gtc act act gac cct ttg ggt ata aac ac	1674
r3A2 stacker	tct ttt tta cag act ctc tca agt cia tia cc	1675
r3A2 arrestor	<u>tat aga act tga tgg ttg tgc gc-NH2</u>	1676
r3A2 probe	aac gag gcg cac aac cat caa gtt cta-NH2	1677
r3A2 stacker	tat ctt ttt tac aga ctc tct caa gtc tat tac c	1678
r3A2 arrestor	<u>tag aac ttg atg gtt gtc gcg-NH2</u>	1679
r3A2 probe	cag tca cgt ctc ctc ggc agg gc-NH2	1680
r3A2 invader	cac aat alc gla ggt agg agg tgc ctt aa	1681
r3A2 arrestor	<u>gcc ctg ccg agg aga cg-NH2</u>	1682
r3A2 probe	cag tca cgt ctc ctc ggc agg g-NH2	1683
r3A2 stacker	ccc cat cga tct cct cct g	1684
r3A2 arrestor	<u>ccc tgc cga gga gac g-NH2</u>	1685
r3A2 probe	cag tca cgt ctc ctc ggc agg-NH2	1686
r3A2 stacker	gcc cca tgc alc tcc tcc	1687
r3A2 arrestor	<u>cct gcc gag gag acg-NH2</u>	1688
r3A2 probe	cag tca cgt ctc ctc ggc ag-NH2	1689
r3A2 stacker	ggc ccc alc gat ctc ctc	1690
r3A2 arrestor	<u>ctg ccg agg aga cg-NH2</u>	1691
r3A2 probe	ccg tca cgc ctc ctc ggc agg-NH2	1692
r3A2 arrestor	<u>cct gcc gag gag gcg-NH2</u>	1693
r3A2 stacker	gcc cca tgc alc tcc tcc	1694
r3A2 probe	ccg tca cgc ctc ctc ggc agg	1695
<hr/>		
hICAM-1 probe	ccg tca cgc ctc ggc ttg tgt gtt c-NH2	1696
hICAM-1 invader	ccg gga tag gtt cag gga ggc gtc	1697
hICAM-1 stacker	<u>ggt ttc atg ggg gtc cct</u>	1698
hICAM-1 arrestor	<u>gaa cac aca agc cga ggc g</u>	1699
hVCAM-1 probe	ccg tca cgc ctc ggc ttt gtt tgg-NH2	1700
hVCAM-1 arrestor	<u>cca aac aaa ggc gag gcg</u>	1701
hVCAM-1 invader	ggg caa cat tga cat aaa gtc ttt gcg tac tct c	1702
hVCAM-1 stacker	<u>ggt cga att cca tgt cat c</u>	1703
hVCAM-1 probe	ccg tca cgc ctc ggc ttt gtt tg-NH2	1704
hVCAM-1 arrestor	<u>caa aca aag gcg agg cg</u>	1705
hVCAM-1 stacker	<u>ggt tgc aat tcc atg tca tc</u>	1706
hGAPDH probe	aac gag gcg cac gct cct gga aga tg-NH2	1707
hGAPDH arrestor	<u>cat ctt cca gga gcg tgc gcc-NH2</u>	1708



hGAPDH invader cac ttg att ttg gag gga tct ca

1709

Secondary system oligos

Capture Oligo	aaa agt ggc tcc t-(biotin)c
Capture Oligo	aaa aga ggc tcc gct-(biotin)c
Capture Oligo	aaa atg tac gcc gct-(biotin) c
Capture Oligo	aaa aga tac gcc aca gct-(biotin) c
Capture Oligo	aaa acc aac cgt atg aac t-(biotin) c
Capture Oligo	aaa atc ata cgc cac t-(biotin)c

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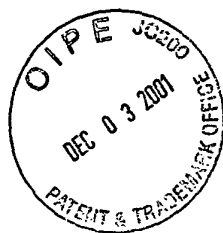
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cgg-agg-aag-cag-ttg-gtg-ctc-gtt-gcc-tt-NH2
cgg agg aag cag ttg gtg ccc ctc gtt aa-NH2
cgg aag aag cag ttg gtg cgc ctc gtt aa-NH2
cgg aag aag cag ttg gtg cgc ctc gtt aa-NH2
cgg aag aag cag ttg gtg cgc ctc gtt aa
cgg aag aag cag ttg gtg cgc ctc gtt aa
cgg aag aag cag ttg gtg cgc ctc gtt aa
cgg aag aag cag ttg gag gcg tga cgg t-NH2
cgg aag aag cag ttg gag gcg tga cgg a-NH2
cgg aag aag cag ttg gag gcg tga cgg a
cgg aag aag cag ttg gag gcg tga cgg t
cgg aag aag cag ttg gag gcg tga cgg t
cgg aag aag cag ttg gag gcg tga cgg t
cgg aag aag cag ttg gag gcg tga cgg a

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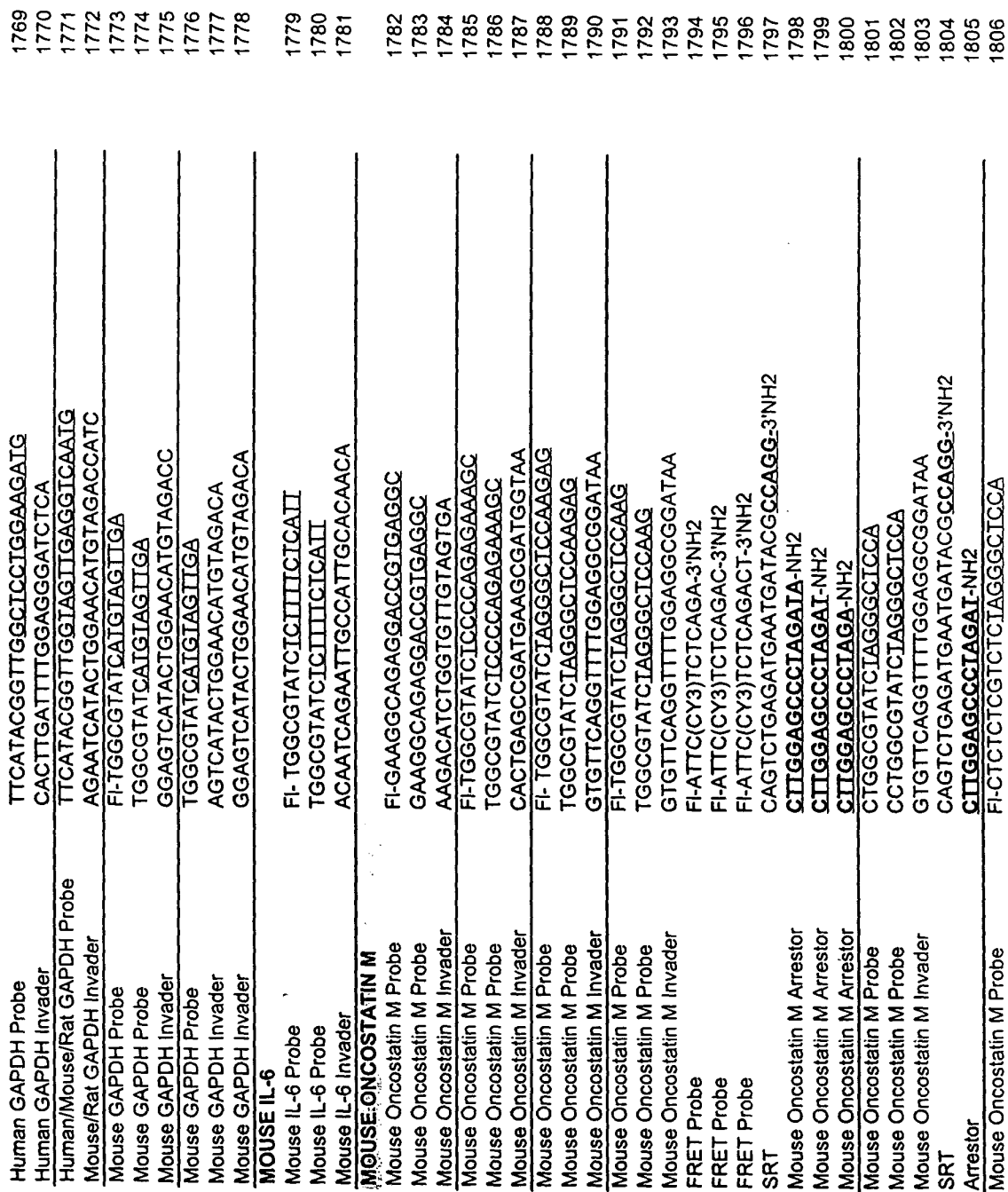
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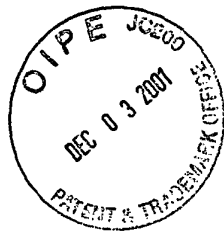
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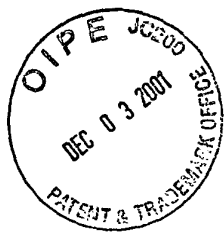
Oligo sequence descriptions:
 5' to 3' direction, 2'-Ome nts are bolded and underlined, internal modifications are defined in (), ASR of primary probes are underlined
 C18ddC = C18 linker+dideoxy C, ddC = dideoxy C, Fl = Fluorescein

Oligo Type	Oligo Sequence	SEQ ID NO
HUMAN IL-2		
Human IL-2 Probe	Fl- CGAAATTAATACGCCCTCTTGGGCAATGTAC -C18ddC	1736
Human IL-2 Probe	CGAAATTAATACGCCCTCTTGGGCAATGTAC -C18ddC	1737
Human IL-2 Invader	CTGAAGATGTTTCAGTTCGTG- ddC	1738
Human IL-2 Invader	GAAGATGTTTCAGTTCGTGGC	1739
Human IL-2 Probe	TCACCTCTACCTTCTTGGGCAATGTAA	1740
Human IL-2 Probe	TCACCTCTACCTTCTTGGGCAATGTAAAC	1741
Human IL-2 Probe	TCACCTCTACCTTCTTGGGCAATGTAA -C18ddC	1742
Human IL-2 Invader	GAAGATGTTTCAGTTCGTG- ddC	1743
Human IL-2 Probe	Fl- ACTTCTCTACCTTCTTGGGCAATGTAAAC	1744
Human IL-2 Probe	ACTTCTCTACCTTCTTGGGCAATGTAAAC - C18ddC	1745
Human IL-2 Invader	GAGTTGGGATCTTGTAAATTAT-ddC	1746
Human IL-2 Probe	Fl- CGTGTCTGTGGCGTATCTTAAATCCATTCAAAAATC	1747
Human IL-2 Probe	CGTGTCTGTGGCGTATCTTAAATCCATTCAAAAATC	1748
Human IL-2 Invader	GAGTTGGGATCTTGTAAATTAT - ddC	1749
Human IL-2 Probe	Fl- CGTGTCTGTGGCGTATCTTAAATCCATTCAAAAATC	1750
Human IL-2 Probe	CGTGTCTGTGGCGTATCTTAAATCCATTCAAAAATC	1751
Human IL-2 Probe	Fl- CGTGTCTGTGGCGTATCTTAAATCCATTCAAAAATC	1752
Human IL-2 Probe	CGTGTCTGTGGCGTATCTTAAATCCATTCAAAAATC	1753
Human IL-2 Invader	GAGTTGGGATCTTGTAAATTAT-ddC	1754
HUMAN β-ACTIN		
Human β -actin Probe	Fl-TTCCTACTCTTGGATCTTCAATGIGG	1755
Human β -actin Invader	CTCAGGAGGAGCAATGATCTT	1756
Human β -actin Invader	CTCAGGAGGAGCAATGAT	1757
Human β -actin Probe	Fl-TCACTTCTACTCTGCGTATCTTCAATGIGG -C18ddC	1758
Human β -actin Probe	TCACCTCTACTCTGCGTATCTTCAATGIGG -C18ddC	1759
Human β -actin Invader	GTGTGAAGGTCTCAAAACATGAT - ddC	1760
Human β -actin Invader	GGGTGTGAAGGTCTCAAAACATGAT - ddC	1761
Human β -actin Probe	Fl- CGTGTCTGTGGCGTATCTTCAATGIGG	1762
Human β -actin Probe	CGTGTCTGTGGCGTATCTTCAATGIGG	1763
Human β -actin Invader	GGGTGTGAAGGTCTCAAAACATGAT - ddC	1764
HUMAN GAPDH		
Human GAPDH Probe	Fl- TTCATACGGTTGGTAGTGGGCAATG	1765
Human GAPDH Probe	TTCATACGGTTGGTAGTGGGCAATG	1766
Human GAPDH Invader	GGAATCATATTGGAACATGTAAACCATC	1767
Human GAPDH Probe	Fl- TTCATACGGTTGGTAGTGGGCAATG	1768





Mouse Oncostatin M Probe	CTCTCTCGTCTCTCTAGGGCTCCCA	1807
Mouse Oncostatin M Invader	GTGTTTCAGGTTTTGGAGGCGGATAA	1808
SRT	CAGTCTGAGATGAATGAGACGAGAGAGI-NH2	1809
Mouse Oncostatin M Arrestor	CTTGGAGCCCTAGAG-NH2	1810
Mouse Oncostatin M Probe	FI- TGGCGTATCTAGGGCTCCCA	1811
Mouse Oncostatin M Probe	TGGCGTATCTAGGGCTCCCA	1812
Mouse Oncostatin M Invader	GTGTTTCAGGTTTTGGAGGCGGATAA	1813
Mouse Oncostatin M Probe	TGGCGTATCTCTCCCGAGAGAA	1814
Mouse Oncostatin M Probe	TGGCGTATCTCTCCCGAGAGAA	1815
Mouse Oncostatin M Invader	CACTGAGCCGATGAAGCGATGGTAA	1816
Mouse Oncostatin M Probe	TGGCGTATCTATAGGGCTC	1817
Mouse Oncostatin M Invader	GTGTGTTTCAGGTTTTGGAGGCGGAA	1818
Mouse Oncostatin M Probe	CTCTCTCGTCTCTCTCAGGTTTTG	1819
Mouse Oncostatin M Invader	GGCAGCTCTCAGGTCAGGTGTGA	1820
Mouse Oncostatin M Invader	AGGCAGCTCTCAGGTCAGGTGTGA	1821
SRT	CAGTCTGAGATGAATGAGACGAGAGAGI-NH2	1822
FRET Probe	FI-ATTCT(CY3)TCTCAGAC-3'NH2	1823
Mouse Oncostatin M Arrestor	CAAAACCTGAAAGAGA-3'NH2	1824
Mouse Oncostatin M Arrestor	CAAAACCTGAAAGAGAC-3'NH2	1825
Mouse Oncostatin M Arrestor	CAAAACCTGAAAGAGACG-3'NH2	1826
Mouse Oncostatin M Probe	FI- CTCTCTCGTCTCTCTCAGGTTTTG	1827
Mouse Oncostatin M Probe	CTCTCTCGTCTCTCTCAGGTTTTG-NH2	1828
Mouse Oncostatin M Invader	GGCAGCTCTCAGGTCAGGTGTGA	1829
Mouse Oncostatin M Stack	GAGGCGGATATAGGGCT- Biotin TEG	1830
HUMAN ONCOSTATIN M		
Human Oncostatin M Probe	CTCTCTCGTCTCTCTAAGGACITTA	1831
Human Oncostatin M Probe	CTCTCTCGTCTCTCTAAGGACITTA	1832
Human Oncostatin M Invader	GAAACAGGAGTGCAAGGACGACAGA	1833
Human Oncostatin M Probe	TCACGTCTCTCTCAGGTTTTG	1834
Human Oncostatin M Probe	GTACAGTCTCTCTCAGGTTTTG	1835
Human Oncostatin M Probe	AGTCACGTCTCTCTCAGGTTTTG	1836
Human Oncostatin M Probe	CAGTCACGTCTCTCTCAGGTTTTG	1837
Human Oncostatin M Invader	AGGCAGCTCTCAGGTCAGGTGTGA	1838
FRET Probe 1	FI- CAAC(CY3)GCTTCCTCCG	1839
SRT	CGGAGGAAGCAGTTGGAGACGTGACTGIGG-NH2	1840
SRT with mismatch	CGGAAGAAGCAGTTGGAGACGTGACTGIGG-NH2	1841
SRT with mismatch	CGGACGAAGCAGTTGGAGACGTGACTGIGG-NH2	1842



bold indicates 2' o-methyl bases

Oligo Type	Oligo Sequence	Oligo #	SEQ ID NO
SECONDARY SYSTEM:			
SET 1			
FRET probe 1	5'-F-CAAC(CY3)GCTTCCTCCG-3'	DB04001F6	1843
secondary target	5'-CGGAAGAAGCAGTTGGTGGCCCTCGTTAA-NH2	649-10-01	1844
SET 2			
FRET probe 1	5'-F-CAAC(CY3)GCTTCCTCCG-3'	DB04001F6	1845
secondary target	5'-CGGAAGAAGCAGTTGGAGCGTGACGGT-NH2-3'	641-60-03	1846
<hr/>			
h2C19 designs 2			
probe	5'-AACGAGGCGCAGATGTCCATCGA-NH2-3'	971-26-09	1847
stacker	5'-TTCTTGGTGTCTTTTACTTTCTC-3'	971-26-12	1848
invader	5'-GCAATCAATAAAGTCCCGAGGGTTGTTT	971-26-11	1849
arrestor	5'-TCGATGGACATCGTGCGC-3'	971-26-10	1850
SET 1			
h 2D6 p450 designs			
probe	5'-CCGTCACGCCCTCTCACCCATCT-NH2-3'	971-11-01	1851
stacker	5'-CTGGTCGCCGCACCT-3'	971-11-04	1852
invader	5'-TGAGGGCATGTGAGCCTGGA-3'	971-11-03	1853
arrestor	5'-AGATGGGAGAGAGGCG-3'	971-11-02	1854
SET 2			
probe	5'-CCGTCACGCCCTCGAAGCCCTGT-NH2-3'	971-11-05	1855
stacker	5'-ACTTCGATGTCACGGGATGTCATATGG-3'	971-11-08	1856
invader	5'-GAGTGTGTTCCCTTAGGGATGCGC-3'	971-11-08	1857
arrestor	5'-ACAGGGCTTCGAGGCG-3'	971-11-06	1858
SET 2			
probe	5'-CCGTCACGCCCTCCCTGCTGAGAAAAG-NH2-3'	971-11-09	1859
stacker	5'-GCAGGAAGGCCCTCCG-3'	971-11-12	1860
invader	5'-CCCGAGGCATGCACGGCGGA-3'	971-11-11	1861
arrestor	5'-CTTTCTCAGCAGGGGAGGCG-3'	971-11-10	1862
SET 2			



h 2D6 shroter designs

probe	5'-CCGTCACGCCCTCCCTGCTGAGAAA-HEX-3'	1051-12-06	1863
probe	5'-CCGTCACGCCCTCCCTGCTGAGAAA-3'	1051-12-05	1864
probe	5'-CCGTCACGCCCTCCCTGCTGAGAAA-NH2-3'	971-38-01	1865
invader	5'-CCCGAGGCATGCACGGCGGA-3'	971-11-11	1866
stacker	5'-GGCAGGAAGGCCTCC-3'	971-38-03	1867
arrestor	5'-TTTCTCAGCAGGGAGGGCG-3'	971-38-02	1868
SET 2			

probe	5'-CCGTCACGCCCTCCCTGCTGAGA-NH2-3'	971-38-07	1869
invader		971-11-11	
stacker	5'-AAGCAGGAAGGCCTCC-3'	971-38-09	1870
arrestor	5'-TCTCAGCAGGGAGGGCG-3'	971-38-08	1871
SET 2			

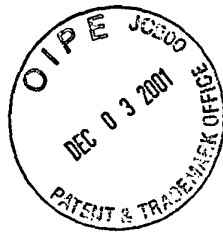
probe	5'-CCGTCACGCCCTCCCTGCTGAGAA-NH2-3'	971-38-04	1872
invader		971-11-11	
stacker	5'-AGGCAGGAAGGCCTGG-3'	971-38-06	1873
arrestor	5'-TTCTCAGCAGGGAGGGCG-3'	971-38-05	1874
SET 2			

probe	5'-CCGTCACGCCCTCCCTGCTGAGAAAG-NH2-3'	971-11-09	1875
invader		971-11-11	
stacker	5'-GCAGGAAGGCCTCCG-3'	971-11-12	1876
arrestor	5'-CTTTCTCAGCAGGGAGGGCG-3'	971-11-10	1877
SET 2			

h 2B6 p450 alt. Splice designs

probe	5'-AACGAGGGCGCACCATATCCC-NH2-3'	1051-48-01	1878
invader	5'-CCAGCGGTTCCATTGGCAAAGATCAA-3'	971-01-03	1879
stacker	5'-CGGAAGAAATGGTCGACCATG-3'	971-01-04	1880
arrestor	5'-GGGATATGGTGGTGCGC-3'	1051-48-02	1881
SET 1			

probe	5'-CCGTCACGCCCTCCACCATATCCC-HEX-3'	1051-12-02	1882
probe	5'-CCGTCACGCCCTCCACCATATCCC-3'	1051-12-01	1883
probe	5'-CCGTCACGCCCTCCACCATATCCC-NH2-3'	971-01-01	1884
invader		971-01-03	
stacker		971-01-04	
arrestor	5'-GGGATATGGTGGAGGGCG-3'	971-01-02	1885



SET 2

probe
invader
stacker
arrestor
SET 1

5'-AACGAGGCGCACCAGAGCTGATGAG-NH2-3'
5'-GAGAAAGAGCTCAACAGCTGGCCGAATAA-3'
5'-TGAAAAAGTCTGGTAGAACAAAGTTCAGC-3'
5'-CTCATCAGCTCTGGTGCGC-3'

1051-48-03
971-01-10
971-01-11
1051-48-04

1886
1887
1888
1889

probe

5'-CCGTCACGCCCTCCAGAGCTGATGAG-NH2-3'

971-01-08
971-01-10
971-01-11
971-01-09

1890

SET 2

5'-CTCATCAGCTCTGGAGGGCG-3'

1891

h2B6 p450 alt.splice designs2

p
l
s
a
SET 1

5'-AACGAGGCGCACCCCTTGGATTTC-NH2-3'
5'-CTGTTCAATCTCCCTGTAGACTCTCTA-3'
5'-CGAAGCTCCTCTATCAG-3'
5'-GAAATCCAAGGGTGCGC-3'

1051-48-05
1051-48-10
1051-48-09
1051-48-06

1892
1893
1894
1895

p
l
s
a
SET 2

5'-CCGTCACGCCCTCCCTTGGATTTC-NH2-3'
5'-GAAATCCAAGGGAGGGCG-3'

1051-48-07
1051-48-10
1051-48-09
1051-48-08

1896
1897

p
l
s
a
SET 1

5'-AACGAGGCGCACTGAGGGCC-NH2-3'
5'-GGAAGAGGAAGGTGGGGTCCAA-3'
5'-CCCTTGGATTCCGAAG-3'
5'-GGCCCTCAGTGCGC-3'

1051-48-11
1051-48-16
1051-48-15
1051-48-12

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1901

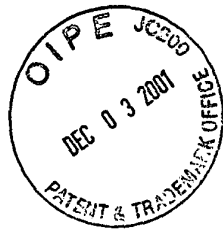
p
l
s
a
SET 2

5'-CCGTCACGCCCTCTGAGGGCC-NH2-3'
5'-GGCCCTCAGAGGGCG-3'

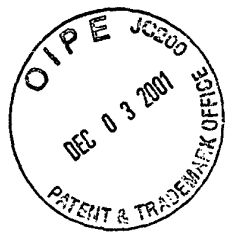
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1902
1903

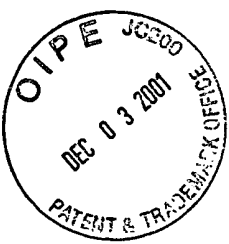
h2B6 p450 alt. Splice designs4



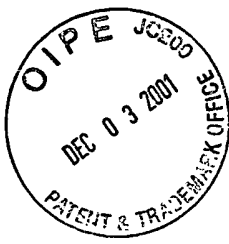
probe	5'-AACGAGGCGCACAAATACAGAGCTG-NH2-3'	1051-48-17	1904
invader	5'-GAGAAGAGCTCAAACAGCTGGCCGC-3'	1051-48-22	1905
stacker	5'-ATGAGTGAAAAAGTCTGGTAGAAC-3'	1051-48-21	1906
arrestor	5'-CAGCTCTGTATTGTGCGC-3'	1051-48-18	1907
SET 1			
probe	5'-CCGTCACGCCTCAATACAGAGCTG-NH2-3'	1051-48-19	1908
invader		1051-48-22	
stacker		1051-48-21	
arrestor	5'-CAGCTCTGTATTGAGGCG-3'	1051-48-20	1909
SET 2			
probe	5'-AACGAGGCGCACGGTTGAGGTTCTG-NH2-3'	1051-48-23	1910
invader	5'-CAGCAAGAGAGCGAGAGCGTGTGAC-3'	1051-48-28	1911
stacker	5'-GTGGCTGAATTCACCTGTG-3'	1051-48-27	1912
arrestor	5'-CAGAACCTCAACCGTGCGC-3'	1051-48-24	1913
SET 1			
probe	5'-CCGTCACGCCTCGTTGAGGTTCTG-NH2-3'	1051-48-25	1914
invader		1051-48-28	
stacker		1051-48-27	
arrestor	5'-CAGAACCTCAACCGAGGCG-3'	1051-48-26	1915
SET 2			
h2B6 p450 designs			
probe	5'-CCGTCACGCCTCCACCATATCCCCG-NH2-3'	971-01-06	1916
invader	5'-CCGTCACGCCTCCACCATATCCC-NH2-3'	971-01-03	1917
stacker	5'-CGGAAGAATGGGTCGAC-3'	971-01-05	1918
stacker	5'-CGGAAGAATGGGTCGACCATG-3'	971-01-04	1919
arrestor	5'-GGGATATGGTGGAGGCG-3'	971-01-02	1920
SET 2			
probe	5'-CCAGCGGTTTCCATTGGCAAAGATCAA-3'	971-01-01	1921
invader		971-01-03	
arrestor	5'-CGGGGATATGGTGGAGGCG-3'	971-01-07	1922
SET 2			
probe	5'-CCGTCACGCCTCCAGAGCTGATGAG-NH2-3'	971-01-08	1923
invader	5'-GAGAAGAGCTCAAACAGCTGGCCGAATAA-3'	971-01-10	1924
stacker	5'-TGAAAAAGTCTGGTAGAACAAAGTTCAGC-3'	971-01-11	1925



arrestor SET 2	5'-CTCATCAGCTCTGGAGGCG-3'	971-01-09	1926
h2b6p450 designs 2			
probe	5'-CCGTCACGCCCTCAGATGACTGCC-NH2-3'	971-01-12	1927
invader	5'-GGAGAAGGTCGGAATCTCTGAATCTCATC-3'	971-01-13	1928
stacker	5'-TCTGTGTATGGCATTCTGGCTCGG-3'	971-01-14	1929
arrestor SET 2	5'-GGCAGTCATCTGAGGCG-3'	971-01-15	1930
h 2C19 designs 1			
probe	5'-CCGTCACGCCCTCCATCCTTAATATCTAT-NH2-3'	971-26-01	1931
invader	5'-GAGAGATTGGTTAAGGATTTGCTGAA-3'	971-26-03	1932
stacker	5'-CTGTAGGATATTTCCAATCACTGGG-3'	971-26-04	1933
arrestor SET 2	5'-ATAGATATTAAGGATGGAGGCG-3'	971-26-02	1934
probe	5'-AACGAGGCGCACCGTTCCAGGC-NH2-3'	971-26-05	1935
invader	5'-CATATCCATGCAGCACCCACCATGA-3'	971-26-07	1936
stacker	5'-CAAAAATACAGAGTGAACACAGGGCC-3'	971-26-08	1937
arrestor SET 1	5'-GCCTGGAACGGTGCGC-3'	971-26-06	1938
h2C19 shorter site 2 designs			
probe	5'-AACGAGGCGCACCGTTCCAGG-NH2-3'	971-68-01	1939
invader	5'-CATATCCATGCAGCACCCACCATGA-3'	971-26-07	1940
stacker	5'-CCAAAATACAGAGTGAACACAGGGCC-3'	971-68-03	1941
arrestor SET 1	5'-CCTGGAACGGTGCGC-3'	971-68-02	1942
probe	5'-AACGAGGCGCACCGTTCCAGGC-NH2-3'	971-26-05	1943
probe	5'-AACGAGGCGCACCGTTCCAGGC-3'	1051-12-03	1944
probe	5'-AACGAGGCGCACCGTTCCAGGC-HEX-3'	1051-12-04	1945
invader	5'-CAAAAATACAGAGTGAACACAGGGCC-3'	971-26-07	1946
stacker	5'-GCCTGGAACGGTGCGC-3'	971-68-04	1947
arrestor SET 1		971-26-05	
rat 1A1, rat 1A2 probe	Rat 1A1 site 1 bs. 639-700 5'-CCGTCACGCCCTCAGATTGACTATGCTG-NH2-3'	500-58-01	1948



invader stacker arrestor SET 2	5'-CAGTAACCTCCCCAAACTCATTGCTTC-3' 5'-AGCAGCTCTTGGTCATCGT-3' 5'-CAGCATAGTCAATCTGAGGCG-3'	500-58-03 500-58-04 500-58-02	1949 1950 1951
rat 1A2 probe invader stacker arrestor SET 1	Rat 1A2 site 1 bs. 674-725 5'-AACGAGCGCGCACTGACATTCTCCAC-NH2-3' 5'-GTCCACAGCATTCCCTGAGGA-3' 5'-AAAGTCCTTGCTGCTCTTC-3' 5'-GTGGAGAAATGTCAGTGCGC-3'	500-58-05 500-58-07 500-58-08 500-53-06	1952 1953 1954 1955
rat 2B1-2B2 patent probe invader stacker arrestor SET 1	5'-AACGAGCGCGCACTGGCTTGACACA-NH2-3' 5'-GTCAATGTCTTGGAGCCAAA-3' 5'-GAGAAATTCTGGAGGATGGTGG-3' 5'-TGTGTCAAGCCAGTGCGC-3'	500-49-05 500-49-03 r2B1, 2B2 500-49-07 500-49-06	1956 1957 1958 1959
probe invader stacker arrestor SET 1	5'-AACGAGCGCGCACTGGCTTGACACAG-NH2-3' 5'-AGAAATTCTGGAGGATGGTGG-3' 5'-CTGTGTCAAGCCAGTGCGC-3'	500-49-01 500-49-03 r2B1, 2B2 500-49-04 500-49-02	1960 1961 1962
rat 2B1-2B2 site 4 probe invader stacker arrestor SET 2	PROBE SET 2 (r2B1 bs 1299-1353, r2B2 bs. 474-528) 5'-AACGAGCGCGCACGAGGAAACAATTCATTT-NH2-3' 5'-GTTCTGGAGGATGGTGGTGAAGAAC-3' 5'-CGGGCAATGCCTTCG-3' 5'-AAATGAATTGTTCTCGTGCGC-3'	500-49-12 500-49-10 500-49-14 500-49-13	1963 1964 1965 1966
probe invader stacker arrestor SET 1	5'-AACGAGCGCGCACGAGGAACAATTCATTT-NH2-3' 5'-GGGCAATGCCTTCG-3' 5'-GAAATGAATTGTTCTCGTGCGC-3'	500-49-08 500-49-10 500-49-11 500-49-09	1967 1968 1969
rat 2B1-2B2 ,5 patent probe	5'-AACGAGCGCGCACAGCTGAGAAAGCAG-NH2-3'	500-49-15	1970



invader	5'-GCCTCAGCCGGATCACCGC-3'	1971
invader	5'-GCCTCAGCCCGATCACCGC-3'	1972
stacker	5'-ATCTGGTACGTTGGAGGTATT-3'	1973
stacker	5'-ATCTGGTATGTTGGAGGTATT-3'	1974
arrestor	5'-CTGCTTCTCAGCTCTGCCG-3'	1975
NOTE: all 3 invader/probe sets are designed to detect both 2B1 and 2B2		
SET 1		
rat 2E1 p450 (af061442) 500-73	Rat 2E1 PROBE SET (570C)	
p	5'-CCGTCACGCCCTCGTCGAAACGTTTGGTT-NH2	1976
i	5'-CCTCAGACACTTCTTGTCATTGTAC-3'	1977
s	5'-GAAGAGGATATCCGCAATGACATTGC-3'	1978
a	5'-AACAAACGTTTCGACGAGGCG-3'	1979
SET 2		
p	5'-CCGTCACGCCCTCGTCGAAACGTTTGGTTGAAG-NH2-3'	1980
i		
s		
a	5'-CTTCAACAACGTTTCGACGAGGCG-3'	1981
SET 2		
rat 2E1 p450 (af061442) 500-73	Rat 2E1 PROBE SET (822G) (designed over splice junction #5)	
p	5'-CCGTCACGCCCTCCTCCATCTCTATG-NH2-3'	1982
i	5'-GTTCTTGGCTGTGTTTTTCCTTA-3'	1983
s	5'-AGGAGACAGTCAGTCACATC-3'	1984
a	5'-CATAGAGATGGAGGAGGCG-3'	1985
SET 2		
p	5'-CCGTCACGCCCTCCTCCATCTCTATGAG-NH2-3'	1986
i		
s		
a	5'-CTCATAGAGATGGAGGAGGCG-3'	1987
SET 2		
Rat 2E1 PROBE SET (969G)	Designed over splice junction #6	
probe	5'-CCGTCACGCCCTCCTCAATTTCTG-HEX-3'	1988
invader	5'-CCCTGTCAATTTCTTCATGAAGTTTA-3'	1989
stacker	5'-GGTATTTTCATGAGGATCAGGAGC-3'	1990
arrestor	5'-CCAGAAATTGAAGAGGAGGCG-3'	1991
SET 2		

r2B1, 500-49-17
r2B2, 500-49-18
r2B1 500-49-20
r2B2 500-49-21
500-49-16

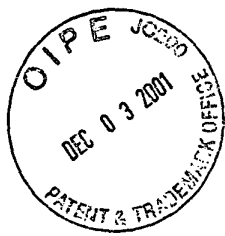
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500-40-02
500-40-05
500-40-06

500-40-01
500-40-02
500-40-05
500-40-03

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500-40-08
500-40-11
500-40-12

500-40-07
500-40-08
500-40-11
500-40-09

1073-19-06
500-40-14
500-40-17
500-40-15



probe 5'-CCGTCACGCCCTCCTCTTCAATTTCTG-3' 1992 1073-19-05
probe 5'-CCGTCACGCCCTCCTCTTCAATTTCTG-NH2-3' 1993 500-40-16
probe 5'-CCGTCACGCCCTCCTCTTCAATTTCTGG-NH2 1994 500-40-13
invader 500-40-14
stacker 500-40-17
arrestor 500-40-18
SET 2 1995 500-40-18

Rat 2E1 PROBE SET (969G)

probe 5'-CCGTCACGCCCTCCTCTTCAATTTCT-NH2-3' 1996 500-73-01
invader 5'-CCCTGTCAATTTCTTCATGAAGTTTA-3' 1997 500-40-14
stacker 5'-GGGTATTTTCATGAGGATCAGGAG-3' 1998 500-73-03
arrestor 5'-AGAAATTGAAGAGGAGGCG-3' 1999 500-73-02
SET 2

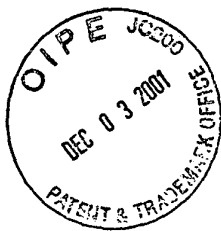
rat 3A's design 2

probe 5'-CCGTCACGCCCTCGTTCCTGGGT-NH2-3' 2000 500-43-15
invader 5'-GAGCAACCTCATGCCAATGCAC-3' 2001 r3A1, 3A18 500-43-23
invader 5'-GAGCAACCTCATGTCAATGCAC-3' 2002 r3A2 500-43-24
invader 5'-GAGCAACCTCATGCCAATACAC-3' 2003 r3A2 500-43-24
stacker 5'-CCATTTCCAAAGGGCAG-3' 2004 short r3A1, 3A2, 3A18 500-43-19
stacker 5'-CCATTTCCAAAGGGCAG-3' 2005 short r3A9 500-43-20
arrestor 5'-ACCCAGGAACGAGGCG-3' 2006 500-43-16
SET 2

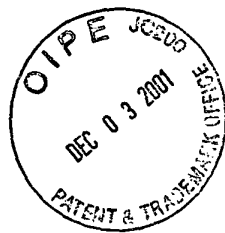
probe 5'-CCGTCACGCCCTCGTTCCTGGGT-NH2-3' 2007 500-43-13
invader r3A1, 3A18 500-43-23
invader r3A2 500-43-24
arrestor 500-43-14
SET 2 2008

rat 3A's desing 3

probe 5'-CCGTCACGCCCTCTGAGAGCAACCT-NH2-3' 2009 500-43-29
invader 5'-AGAGCGAGTTTCATATTCAA-3' 2010 r3A1, 3A2 500-43-35
invader 5'-AGAGCAACTTTCATGTTCAA-3' 2011 r3A9 500-43-36
invader 5'-ACAGCAAGTTTCATGCTGAA-3' 2012 r3A18 500-43-37
stacker 5'-CATGCCAATGCAGTTCCTG-3' 2013 r3A1, 3A18 500-43-31
stacker 5'-CATGTCAATGCAGTTCCTG-3' 2014 r3A2 500-43-32
stacker 5'-CATGCCAATACAGTTCCTG-3' 2015 r3A9 500-43-33



arrestor SET 2	5'-AGGTTTGCTCTCCGAGGCG-3'	500-43-30	2016
probe invader invader invader arrestor SET 2	5'-CCGTCACGCCCTCTGAGAGCAAACCTCA-NH2-3' 5'-TGAGGTTTGCTCTCAGAGGCG-3'	500-43-27 r3A1, 3A2 500-43-35 r3A9 500-43-36 r3A18 500-43-37 500-43-28	2017 2018
rat 3A's designs probe invader invader invader s s a SET 2	5'-CCGTCACGCCCTCGGAACATCTCCT-NH2-3' 5'-TGCTCCATAGTGTCAATGATGGC-3' 5'-TATCTGTATAGTGGTTAATGATGGC-3' 5'-TATCTCCATAGTGTCTCATGAGGGC-3' 5'-TGAGTCTTCCACTGGTG-3' 5'-TGAGCTTCCCACTGGTG-3' 5'-TGAGTTTGCCACTGGTG-3'	500-43-03 r3A1, 3A2 500-43-09 r3A9 500-43-10 r3A18 500-43-11 r3A1, 3A2 500-43-05 r3A9 500-43-06 r3A18 500-43-07	2019 2020 2021 2022 2023 2024 2025
probe invader invader invader arrestor SET 2	5'-CCGTCACGCCCTCGGAACATCTCCTTGA-NH2-3' 5'-TCAAGGAGATGTTCCGAGGCG-3'	500-43-01 r3A1, 3A2 500-43-09 r3A9 500-43-10 r3A18 500-43-11 500-43-02	2026 2027
rat 3A's design 2b probe invader invader invader invader stacker stacker arrestor SET 2	5'-CCGTCACGCCCTCGTTCCTGGG-NH2-3' 5'-GAGCAAACCTCATGCCAATGCAC-3' 5'-GAGCAAACCTCATGTCAATGCAC-3' 5'-GAGCAAACCTCATGCCAATACAC-3' 5'-TCCATTCCAAAGGGCAG-3' 5'-TCCATTCCCAAGGGCAG-3' 5'-CCCAGGAACGAGGCG-3'	991-39-01 r3A1, 3A18 500-43-23 r3A2 500-43-24 r3A9 500-43-25 r3A1, 3A2, 3A18 991-39-03 r3A9 991-39-04 991-39-02	2028 2029 2030 2031 2032 2033 2034
rat or human 1A1 shorter site 2 probe probe	5'-CCGTCACGCCCTCCTGTCTGTGAT-HEX-3' 5'-CCGTCACGCCCTCCTGTCTGTGAT-3'	1073-19-02 1073-19-01	2035 2036



probe 5'-CCGTCACGCCCTCCTGTCTGTGAT-NH2-3' 2037
invader 5'-TCCTGACAAATGCTCAATGAGGA-3' 2038
invader 5'-TCCTGACAGTGCTCAATCAGGA-3' 2039
stacker 5'-GTCCCGGATGTGGCCC-3' 2040
arrestor 5'-ACATCACAGACAGGAGGCG-3' 2041
SET 2

probe 5'-CCGTCACGCCCTCCTGTCTGTGATG-NH2-3' 2042
invader r 1A1 500-53-11
invader h 1A1 500-53-12
stacker rat/human 1A1 991-12-03
arrestor 991-12-02 2043
SET 2

probe 5'-CCGTCACGCCCTCCTGTCTGTGATGT-NH2-3' 2045
invader r 1A1 500-53-11
invader h 1A1 500-53-12
stacker rat/human 1A1 991-12-06
arrestor 991-12-05 2046
SET 2

rat or human 1A1 site 1

probe 5'-CCGTCACGCCCTCTGGCCCTTC-NH2-3' 2048
invader 5'-CTGTCTGTGATGTCCCGGATGA-3' 2049
stacker 5'-TCAAATGTCCTGTAGTCTC-3' 2050
stacker 5'-TCAAAGGTTTGTAGTCTC-3' 2051
arrestor 5'-GAAGGGCCAGAGGCG-3' 2052
SET 2

probe 5'-CCGTCACGCCCTCTGGCCCTTCTC-NH2-3' 2053
invader 500-53-01
arrestor 500-53-03
SET 2 500-53-02 2054

Rat/Human 1A1 site 2

probe 5'-CCGTCACGCCCTCCTGTCTGTGATGT-NH2-3' 2055
invader r 1A1 500-53-11
invader h 1A1 500-53-12
stacker rat/human 1A1 500-53-14
arrestor 5'-ACATCACAGACAGGAGGCG-3' 2058
2059



SET 2

rat or human 1A2 sites

probe

probe

probe

invader

invader

arrestor

SET 1

5'-AACGAGGCGCACGGACTGTTTTCTGC-HEX-3'

5'-AACGAGGCGCACGGACTGTTTTCTGC-3'

5'-AACGAGGCGCACGGACTGTTTTCTGC-NH2-3'

5'-CTTGTGAAAGTCTTGATAGTGTTCCTC-3'

5'-CTTGTCAAAGTCTGATAGTGTCTCCTC-3'

5'-GCAGAAAAACAGTCGTCGCGC-3'

1073-19-04

1073-19-03

500-53-15

rat 1A2 500-53-17

human 1A2 500-53-18

500-53-16

2060

2061

2062

2063

2064

2065

shorter h2C19 design site 3

probe

invader

stacker

arrestor

SET 1

5'-AACGAGGCGCACGGATGCCATCG-NH2-3'

5'-GCAATCAATAAAGTCCCGAGGGTTGTTTC-3'

5'-ATTCTTGGTGTCTTTTACTTTCTC-3'

5'-CGATGGACATCGTGCGC-3'

971-48-01

971-26-11

971-48-03

971-48-02

2066

2067

2068

2069

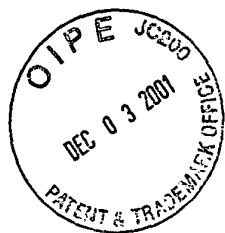


Human IL-10

Oligo Type	Sequence	Oligo Number	Secondary Cassette	Comments	SEQ ID NO
probe	aacgaggcgacaacaactcctcaicggct-NH2	511-31-01	FV-1 & FV-2	3' amine	2070
amplifier	agccatgagtaggttttgctgcg	511-31-02		All 2'Ome + 3' amine arrestor for 511-31-01	2071
probe	aacgaggcgacaacaactcctcaicggc-NH2	511-30-01	FV-1 & FV-2	3' amine	2072
amplifier	gccatgtagtggitttgttcg	511-30-02		All 2'Ome + 3' amine arrestor for 511-30-01	2073
amplifier	gccatgtagtggitttgttcg	380-89-02		All 2'Ome Same as 380-82-02	2074
amplifier	gccatgtagtggitttgttcg	380-89-04		All 2'Ome Same as 380-82-04	2075
amplifier	gccatgtagtggitttgttcg	380-89-06		All 2'Ome Same as 380-82-06	2076
amplifier	gccatgtagtggitttgttcg	380-89-08		All 2'Ome Same as 380-82-08	2077
probe	aacgaggcgacaacaactcctcaicgg-NH2	511-67-01	FV-1 & FV-2	3' amine	2078
stacker	ctttgtaacagcctctctctggagc	781-79-01		stacker for 511-67-01 All 2'Ome	2079
amplifier	ccattgagtaggttttgttcg	781-79-02		all 2'Ome arrestor for 511-67-01	2080
probe	aacgaggcgacaacaactcctcaicg-NH2	781-80-01	FV-1 & FV-2	3' amine	2081
stacker	gctttgtaacagcctctctctggag	781-80-02		stacker for 781-80-01 All 2'Ome	2082
amplifier	cattgtagtggitttgttcg	781-80-03	FV-1 & FV-2	all 2'Ome arrestor for 781-80-01	2083
probe	aacgaggcgacaacaactcctcat-NH2	781-81-01		3' amine	2084
stacker	ggctttgtaacagcctctctcttga	781-81-02		stacker for 781-81-01 All 2'Ome	2085
stacker	ggctttgtaacagcctctctcttga	938-74-01		stacker for 781-81-01 All 2'Ome to replace 781-81-02	2086
amplifier	alagatgagtgtttgttcg	781-81-03		all 2'Ome arrestor for 781-81-01	2087
probe	cgcatacgcctccaactcctcat-NH2	938-46-02	MO4-1/MO4-2/MO4-3	same as 938-46-01 w/ 3' amine	2088
amplifier	alagatgagtgtttgttcg	938-46-03		all 2'Ome arrestor for 938-46-01&02	2089
invader	laggctctaigtgtagtaagaigta	380-59-02			2090
invader	gcaicgaggtcttatgtagtgaagaigta	511-32-01		longer invader 380-59-02	2091

Mouse IL-4

Oligo Type	Sequence	Oligo Number	Secondary Cassette	Comments	
probe	aacgaggcgccactctctcgtgacctg	511-14-01	FV-1 & FV-2		2092
arrestor	cgagggtcacagagagagtgccg	511-14-02		All 2'-Ome + 3' amine arrestor for 511-14-01	2093
probe	aacgagcgccactctctcgtgacct-NH2	511-12-01	FV-1 & FV-2	458-34-01 with 3' amine	2094
arrestor	aggctcacaggagagtgccg	511-02-01		All 2'-Ome + 3' amine arrestor for 458-34-01	2095
probe	cagtcctctctctctcgtgacct-NH2	511-16-01	MO2	3' amine	2096
arrestor	aggctcacaggagagagagcg	511-16-02		All 2'-Ome + 3' amine arrestor for 511-16-01	2097
arrestor	aggctcacaggagagagagc	511-50-01		All 2'-Ome + 3' amine arrestor for 511-16-01	2098
probe	aaccagtcgtagctctctcgtgacct	458-35-01	MISC-1		2099
arrestor	aggctcacaggagagagtc	511-03-01		All 2'-Ome + 3' amine arrestor for 458-35-01	2100
probe	ccagtcgtagctctctcgtgacct	458-35-02	MISC-1		2101
arrestor	aggctcacaggagagtgccg	511-04-01		All 2'-Ome + 3' amine arrestor for 458-36-01	2102
probe	aaccacccgacctctctcgtgacct	458-36-01	MISC-2		2103
probe	aacgaggcgccactctctcgtgacct	511-13-01	FV-1 & FV-2		2104
arrestor	ggctcacaggagagtgccg	511-13-02			2105
probe	acgaggcgccactctctcgtgacct-NH2	781-71-01	FV-1 & FV-2	3' amine	2106
tsa/sack	ccctggcttcaaaagccgagtgatcttc	781-71-02		All 2'-Ome for 781-71-01	2107
arrestor	tcacagagagtgccg	781-71-03		All 2'-Ome arrestor for 781-71-01	2108
invader	atccactctcggctcagtcggctcccta	380-32-01			2109
invader	atccactctcggtagtggtggtcccta	380-32-02		Same as 380-32-01 but underlined base is mismatch to sequence	2110
probe	aacgaggcgccaccctctctcgtgacct-NH2	511-44-01	FV-1 & FV-2	3' amine	2111
arrestor	gtcacagagagagggggtgccg	511-44-02		All 2'-Ome + 3' amine arrestor for 511-44-01	2112
probe	aacgaggcgccaccctctctcgtgacct-NH2	511-68-01	FV-1 & FV-2	3' amine	2113
arrestor	acagggagagagggggtgccg	511-68-02		All 2'-Ome + 3' amine arrestor for 511-68-01	2114
invader	ggccatccatctcgtcgtcagtgccgta	511-45-01			2115
probe	cgttcagtcgacctctctcgtgacctggt-NH2	511-46-01	MO4-1/MO4-2/MO4-3	3' amine	2116



Oligo sequence descriptions: 5' to 3' direction, 2'-Ome nts are bolded and underlined, internal modifications defined in ()

FRET Oligo/SRT Combinations

	FRET Oligo	SRT
Set 1	187-46-01	641-80-02
Set 2	187-46-01	690-82-03
Set 3	307-70-02	339-50-03
Set 4	303-18-05	343-83-07
Set 5	303-18-05	343-25-01
Set 6	187-46-01	649-10-01
Set 7	744-80-03	277-068-05N
Set 8	187-46-01	833-18-07
Set 9	767-28-03	777-71-10
Set 10	767-29-02	996-29-01
Set 11	1067-20-01	996-29-01
Set 12	307-70-02	307-70-04
Set 13	491-01-01	491-02-04
Set 14	187-46-01	562-84-01

FRET Oligos

Oligo #	Oligo Sequence
187-46-01	Fam-CAAC(CY3)GCTTCTCTCCG
307-70-02	Fam-ATT(CY3)TCTCAGAC-NH2
303-18-05	Fam-TAAC(CY3)GCTTCTCTCCG
744-80-03	Fam-CAAD(Daboy)TGCTTCTCTCCG
767-28-03	Red Dye-CTC(Z-2)TCTCAGTGGG
767-29-02	Fam-CAC(Z-2)TGCTTCTCTGG
1067-20-01	Fam-CAC(Z-28)TGCTTCTCTGG
491-01-01	Fam-CTTC(CY3)TCTCAGAC

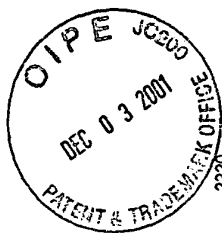
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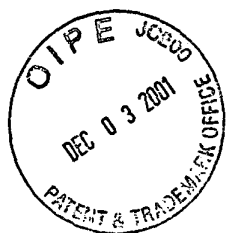
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641-80-02	CGGAGGAGCAGTTGGAGCGTGACGGT-NH2
690-82-03	CGGAGGAGCAGTTGGCGGTGACGGTT
339-50-03	CAGTCTGAGATGAATGAGACGAGAGT-NH2
343-83-07	CGGAGGAGCGGTTAGTCTGACGICAI-NH2
343-25-01	CGGAGGAGCGGTTAGTCTGCCACGICAI-NH2
649-10-01	CGGAAGAGCAGTTGGTGGCCTCGTAA-NH2
277-068-05N	CGGAGGAGCAGTTGGTGGCCTCGTAA-NH2
833-18-07	CGGAGGAGCAGTTGGCGGCTCGTAA-NH2
777-71-10	CGGAGGAGCAGTTGGCGGCTCGTAA-NH2
996-29-01	CGGAGGAGCAGTTGGCGGCTCGTAA-NH2
307-70-04	CAGTCTGAGATGAATGATACGCGAG-NH2
491-02-04	AGTCTGAGATGAAGGAGCGTGACTGIGG-NH2
562-84-01	CGGAGGAGCGGTTGGTGTCTCGGGG-NH2

SEQ ID NO
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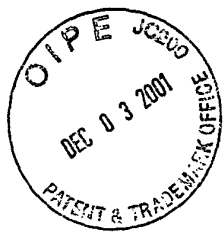
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Human IL-2	196-56-01	TCTGTGGCGTATCCTTCTGGCATGTAA			2213
Probe	196-56-02	GTGCGTATCCTTCTTGGCATGTAA		Splice Junction 2	2214
Probe	196-56-03	CGGTATCCTTCTTGGCATGTAA			2215
Invader	128-93-02	GAAAGATGTTTCAGTCTGTGGG(ddC)	ddC = dideoxy C		2216
Capture Oligo	145-030-05	AAAAGATACGACACACACG(BIOTIN-da)TT			2217
Probe	315-28-01	TGGCGTATCTTAATTCATCAAAAT		Splice Junction 1	2218
Invader	315-28-02	TGGGAGTTGGGATCTTGTAAATTA			2219



Capture Oligo	195-023-01	AAAAGATACGCCACACG(BIOTIN-dTTC	2220
Probe	315-29-01	TGGCGTATCTAATTAAATTCATTTC	2221
Invader	315-29-02	ATCCTGGTGAGTTGGGATTCCTTGA	2222
Capture Oligo	195-023-01	AAAAGATACGCCACACG(BIOTIN-dTTC	2223
Probe	315-29-03	TGGCGTATCTCCATTCAAAATCATC	2224
Invader	315-29-04	GTTTGGGATCTCTGTAATTAATTA	2225
Capture Oligo	195-023-01	AAAAGATACGCCACACG(BIOTIN-dTTC	2226
Probe	315-30-01	GTGGCGTATCTCTCTGGGCAT	2227
Invader	315-30-02	GAAGATGTTTCAGTTCTGTGGC	2228
Capture Oligo	195-023-01	AAAAGATACGCCACACG(BIOTIN-dTTC	2229
Human b-actin			
Probe	315-26-01	TGGCGTATCTCTGGGTCATCTTC	2230
Invader	315-26-02	GGGTGTTGAAGGTCTCAACATGAA	2231
Capture Oligo	195-023-01	AAAAGATACGCCACACG(BIOTIN-dTTC	2232
Probe	315-27-01	TGGCGTATCTCTTGATCTTCATTGT	2233
Invader	315-27-02	ACTTGGCTCAGGAGGAGCAATGAA	2234
Capture Oligo	195-023-01	AAAAGATACGCCACACG(BIOTIN-dTTC	2235
Probe	315-91-01	TGGCGTATCTGATCTGGGTCATCT	2236
Invader	315-91-02	TGGCTGGGGTGTGAAGGTCTCAACAA	2237
Capture Oligo	195-023-01	AAAAGATACGCCACACG(BIOTIN-dTTC	2238
Probe	315-92-01	ACCGTATCTGCCCGAGGAAGGA	2239
Invader	315-92-02	AGTTTCGTGGATGCCACAGGAGACCAA	2240
Invader	315-92-03	AGTTTCGTGGATGCTACAGGAGACCAA	2241
Capture Oligo	195-023-01	AAAAGATACGCCACACG(BIOTIN-dTTC	2242
Probe	340-32-01	TGGCGTATCTCTCAACATGATCT	2243
Invader	340-32-02	ACGTACATGGGTGGGTGTTGAAGGA	2244
Capture Oligo	195-023-01	AAAAGATACGCCACACG(BIOTIN-dTTC	2245
Probe	340-33-01	TGGCGTATCTGATCTGGGTGATC	2246
Invader	340-33-02	TGGCTGGGGTGTGAAGGTCTCAACAA	2247
Capture Oligo	195-023-01	AAAAGATACGCCACACG(BIOTIN-dTTC	2248
Probe	740-01-01	CCGTCACGCCCTCGCCTTGGGGTTC	2249
Invader	740-01-02	TCTGGGTATCTCTCTCGCGGTGA	2250
Arrestor	740-01-03	GAACCCCAAGGGAGGGGT	2251
Secondary Cassette		Set 1	
Probe	740-01-08	CCGTCACGCCCATGGGTCTCTCTCT	2252
Stacker	740-01-04	CGCGGTGGCCTTGGGGTT	2253
Invader	740-01-08	CTGGGGTGTGAAGGTCTCAACATGATCC	2254
Arrestor	740-01-09	AGAAGATGAGCCCAIGGCGG	2255
Secondary Cassette		Set 2	
Mouse GAPDH			
Probe	425-59-01	FI-CTCTCTCGTCTCTCTCTGGAAGA	2256
Invader	425-59-02	ATTGATGTTAGTGGGGTCTCGCA	2257
Probe	425-60-01	FI-CTCTCTCGTCTCTCTGACAAATC	2258
Invader	425-60-02	GCAGTTGGTGGTGACGAGTGCATA	2259
Probe	425-61-01	FI-CTCTCTCGTCTCTACCAAGAAATG	2260
Invader	425-61-02	GCTGTAGCCGTTATTCATTGTCAA	2261
Probe	425-80-01	FI-CTCTCTCGTCTCTCTCTCTGGAAG	2262
Invader	425-80-02	CATTGATGTTAGTGGGGTCTCGA	2263
Probe	425-87-01	CTCTCTCTCTCTCTCTCTGGAAGA	2264
Invader	425-87-02	ATTGATGTTAGTGGGGTCTCGCA	2265
Arrestor	425-87-04	ICTTCAGGAGAGACG	2266
Secondary Cassette		Set 3	
Probe	425-87-02	CTCTCTCTCTCTCTCTCTCTGGAAG	2267
Invader	425-80-02	CATTGATGTTAGTGGGGTCTCGA	2268
		Fl = Fluorescent	
		Fl = Fluorescent	
		Fl = Fluorescent	
		Same as 425-59-01 without Fluorescent	
		Same as 425-80-01 without Fluorescent	



Arrestor	425-87-05	GTTCAGGAGGAGACG	2269
Secondary Cassette			
Probe	425-87-03	Set 3	
Invader	425-61-02	CTCTCGTCTCTACCGAGAAATG	2270
Arrestor	425-87-06	CCTGTAGCCGTAATCATGTCAA	2271
Secondary Cassette		CATTCCTGGTAGAGACG	2272
Probe	453-23-01	Set 3	
Probe	453-23-03	ATGACGTGACAGACCTCTCGGAAGAT	2273
Invader	425-80-02	ATGACGTGACAGACCTCTCGGAAGATG	2274
Arrestor	453-23-04	CATTGATGTTAGTGGGGTCTCGA	2275
Secondary Cassette		CACTCTCCAGGAGGCTCTGT-NH2	2276
Probe	453-23-02	Set 4	
Invader	425-80-02	ATGACGTGGCAGACCTCTCGGAAGAT	2277
Arrestor	453-23-05	CATTGATGTTAGTGGGGTCTCGA	2278
Secondary Cassette		AICTTCCAGGAGGCTCTGT-NH2	2279
Probe	435-67-04	Set 5	
Invader	395-05-07	CAGTCAGCTCTCTCAGGTTTG	2280
FRET Probe - Secondary Reaction	524-51-01	AGGAGCTCTCAGGTCAGGTGTGA	2281
Secondary Reaction Template	524-51-03	FI-CTTC(Cy3)TCTCAGTAGCG	2282
Secondary Reaction Template	524-51-04	CGCTACTGAGATGAAGGAGACGTGACTGTA-NH2	2283
Probe	435-67-04	CGCTAATGAGATGAAGGAGACGTGACTGTA-NH2	2284
Invader	395-05-07	CAGTCAGCTCTCTCAGGTTTG	2285
FRET Probe - Secondary Reaction	524-51-02	AGGAGCTCTCAGGTCAGGTGTGA	2286
Secondary Reaction Template	524-51-05	FI-CTTC(Cy3)TCTCAGTAGCGA	2287
Secondary Reaction Template	524-51-08	TCGCTACTGAGATGAAGGAGACGTGACTGTA-NH2	2288
		TCGCTAATGAGATGAAGGAGACGTGACTGTA-NH2	2289
Human Ubiquitin			
Probe	796-72-01	AACGAGCGCACCTTTACATTTTCTATCGTATCC	2290
Invader	428-81-02	CGTTCCTTATCCTGGATCTTGGCA	2291
Arrestor	796-72-02	GGATAGCATAGAAAATGTAAGGIGCGC	2292
Secondary Cassette		Set 6	
Probe	796-72-03	AACGAGCGCACCTTTACATTTTCTATCGTATC	2293
Invader	428-81-02	CCTTCCTTATCCTGGATCTTGGCA	2294
Arrestor	796-72-04	GGATAGCATAGAAAATGTAAGGIGCGC	2295
Secondary Cassette		Set 6	
Probe	820-35-01	AACGAGCGCGCACCTTTACATTTTCTATCG	2296
Probe	820-35-02	AACGAGCGCGCACCTTTACATTTTCTATCGT	2297
Invader	428-81-02	CCTTCCTTATCCTGGATCTTGGCA	2298
Arrestor	820-35-03	ACGATAGAAAATGTAAGGIGCGC	2299
Secondary Cassette		Set 7	
Probe	820-88-01	AACGAGCGCGCACCTTTACATTTTCTATCGT-NH2	2300
Probe	820-88-02	AACGAGCGCGCACCTTTACATTTTCTATCGTU	2301
Probe	820-88-03	AACGAGCGCGCACCTTTACATTTTCTATCGTG	2302
Probe	820-88-04	AACGAGCGCGCACCTTTACATTTTCTATCGTT	2303
Invader	428-81-02	CCTTCCTTATCCTGGATCTTGGCA	2304
Arrestor	820-35-03	ACGATAGAAAATGTAAGGIGCGC	2305
Secondary Cassette		Set 7	
Probe	847-65-01	GCCGCACCGCGCTTTACATTTTCTATCGT	2306
Invader	428-81-02	CCTTCCTTATCCTGGATCTTGGCA	2307
Arrestor	847-65-02	ACGATAGAAAATGTAAGGIGCGC	2308
Arrestor	847-65-03	ACGATAGAAAATGTAAGGIGCGCI	2309
Secondary Cassette		Set 8	
Probe	938-61-01	AACGAGCGCGCACCTTTACATTTTCTATCGTATCCG	2310
Invader	428-81-02	CCTTCCTTATCCTGGATCTTGGCA	2311
		Same as 425-61-01 without Fluorescent	
		Splice Junction 8	
		Splice Junction 4	
		Splice Junction 4	
		Same as 820-35-02 with 3' Amine	
		Same as 820-35-02 with O-Me U for Blocking	
		Same as 820-35-02 with O-Me G for Blocking	
		Same as 820-35-02 with T for Blocking. The T is a mismatch against the RNA sequence.	
		Same as 428-87-01 without Biotin blocking group	



Arrestor Secondary Cassette	938-61-02	CGGATACGATAGAAAATGTAAAGGTGCGC Set 7	Same as 428-87-03 without Biotin blocking group	2312
Monocyte Chemolactic Protein 1 (MCP- 1)				
Probe	820-89-01	CCGTACACGCTCCTTCGGAGTTTGGG		2313
Invader	885-78-01	GGGTTGTGGAGTGAGTGTTCAAGTA	Same as 720-92-01 without the amine	2314
Arrestor	820-89-02	CCCAAACTCCGAAGGAGGCG Set 9		2315
Secondary Cassette				
MAGE-3				
Probe	1001-01-01	FLTTTCTGGAAGCTTTGCT		2316
Invader	871-18-03	CGATGCCAAAGACGCTGCAAGGAAG		2317
Stacker	871-18-01	GAAGATCAGGAGAAAGAAATAC		2318
Stacker	1138-50-01	GCAGCTCTTGGGA		2319
Probe	1138-50-02	AACGAGGCGCACGTTGGGTGA		2320
Stacker	1138-50-03	GCAGCTCTTGGGACT		2321
Probe	1138-50-04	AACGAGGCGCACGTTGGGTGAG		2322
Invader	1138-50-05	CTCCAGGTAGTTTCTCTGCACGAAATC		2323
Arrestor	1138-50-06	CICACCCAAAGTGGCG Set 10	Same analyte specific Region as 871-18-02.	2324
Secondary Cassette				
Stacker	1138-51-01	AGCTCTTGGGATC		2325
Probe	1138-51-02	AACGAGGCGCACCTTGGGTGAGC		2326
Stacker	1138-51-03	GCCTCTTGGGATCC		2327
Probe	1138-51-04	AACGAGGCGCACCTTGGGTGAGCA		2328
Invader	1138-51-05	CAGGTAGTTTTCTCTGCACGAAATGA		2329
Arrestor	1138-51-06	IGTCCACCCAAATGGCG Set 11		2330
Secondary Cassette				
Stacker	1138-67-01	IGCAGGATCAGTGGC		2331
Probe	1138-67-02	AACGAGGCGCACCAATTCATAACA		2332
Invader	1138-67-03	GGCCCTTGGACCCCA		2333
Arrestor	1138-67-04	IGTATGAAATGGTGGTGGCG Set 11		2334
Secondary Cassette				
Stacker	1138-67-05	CATGCAGGATCAGTGC		2335
Probe	1138-67-06	AACGAGGCGCACCAATTCATAACA		2336
Invader	1138-67-07	AGGCCCTTGGACCCA		2337
Arrestor	1138-67-08	ITATGAAATGGTGGTGGCG Set 11		2338
Secondary Cassette				
Human Oncostatin M				
Probe	339-30-02	CTGGCGGTATCTAGGGCTCCA		2339
Invader	264-42-03	GTGTCAGGTTTTGGAGGCGGATAA		2340
Arrestor	374-32-01	CTGGAGGCCCTAGATAC-NH2		2341
Arrestor	374-32-02	CTGGAGGCCCTAGATACG-NH2		2342
Arrestor	374-32-03	CTGGAGGCCCTAGATACG-NH2 Set 12		2343
Secondary Cassette				
Probe	524-39-01	CAGTCACGTCTCTCAGGTTTTG-NH2	Same as 435-67-04 with 3' Amine	2344
Invader	395-05-07	AGGCAGCTCTCAGGTCAGGTGTGA		2345
Stacker	435-40-02	GAGCGGATATAGGGCTCCA		2346
Arrestor	369-47-07	CAAAACCTGAAGAGAGCG-NH2 Set 13		2347
Secondary Cassette				
Probe	1088-74-01	AACGAGGCGCACCCCTCTGTGTG		2348
Arrestor	1088-74-02	CACACAGAGGGTGGCG		2349
Probe	1088-74-03	AACGAGGCGCACCCCTCTGTGTG-NH2		2350
Probe	1088-74-04	AACGAGGCGCACCCCTCTGTGTG-HEX	HEX = Hexanediol	2351
Invader	603-75-03	GCAAGGACCCAGACTGAGCAGCGTA		2352



Stacker	752-01-05	AGCAGTACCCCGATG	2353
Arrestor	841-62-04	CACAGAGGGAGGG-NH2	2354
Secondary Cassette		Set 10	
Probe	1138-49-02	AACGAGGGCCACCTTCTGGAG-NH2	2355
Stacker	1138-49-01	CTGGCGAAGGAG	2356
Invader	1138-49-03	GTCTGCATGAGATCTGTCTGA	2357
Arrestor	1138-49-04	CTCCAGAAAGGTGGCG	2358
Secondary Cassette		Set 11	
Probe	1138-49-06	AACGAGGGCCACTCTGCTTCT-NH2	2359
Stacker	1138-49-05	GGAGGTGGCGAA	2360
Invader	1138-49-07	TGGTGTCTCTGCATGAGATCTGA	2361
Arrestor	1138-49-08	TCCAGAAAGCAGAGTGGCG	2362
Secondary Cassette		Set 11	
Probe	1138-49-10	AACGAGGGCCACCATGAGATCT-NH2	2363
Stacker	1138-49-09	GTCTGTCTTCTGA	2364
Invader	1138-49-11	GAGTCTGTGGTGTCTCTGA	2365
Arrestor	1138-49-12	AGATCTCATGTGGCG	2366
Secondary Cassette		Set 11	
Probe	1163-01-01	TGGCCAAAGGAGCA	2367
Stacker	1163-01-02	AACGAGGGCCACTTCTGGAG-NH2	2368
Invader	1163-01-03	TCTGTGCATGAGATCTGTCTGCA	2369
Arrestor	1163-01-04	GTCTPAGAAAGTGGCG	2370
Secondary Cassette		Set 11	
Probe	1163-01-05	GGCCAAAGGAGCAC	2371
Stacker	1163-01-06	AACGAGGGCCACTCTGGAGCT-NH2	2372
Invader	1163-01-07	CCTGCATGAGATCTGTCTGCTA	2373
Arrestor	1163-01-08	AGCTCCAGAGTGGCG	2374
Secondary Cassette		Set 11	
Probe	1163-01-09	GGCCAAAGGAGCACG	2375
Stacker	1163-01-10	AACGAGGGCCACCCTGGAGCT-NH2	2376
Invader	1163-01-11	CCTGCATGAGATCTGTCTGCTTA	2377
Arrestor	1163-01-12	GAGCTCCAGGTGGCG	2378
Secondary Cassette		Set 11	
84h8r			
Probe	688-51-01	CGCGAGATCACGCCAACGACGGTCT	2379
Invader	888-51-02	AGCCCTTGAGTTTAACTTCATAGGCACTA	2380
Arrestor	688-51-03	AGACCGTGGTGGCGGTGATC	2381
Secondary Cassette		Set 14	
Probe	888-51-04	CGCGAGATCACCTCAACACCAATAAAGCCA	2382
Invader	888-51-05	CGGGAGACTGAGGAATACGTCACCACCA	2383
Arrestor	888-51-06	TGGCTTTATGGTGTGAGGTGATC	2384
Secondary Cassette		Set 14	
MSH2			
Probe	690-32-02	CCGTACCCCTCCGAACCTGCCCTAG	2385
Invader	690-32-04	GTATAATAGTCCCGACGATCAAGAGGC	2386
Stacker	709-52-01	GGTCTTGGGYAGGG	2387
Arrestor	690-32-05	GGGAGAGGCTTGACGGGATC	2388
Secondary Cassette		Set 1	



bold indicates 2' O methyl base

ELISA Format Kits

Leukocyte-associated molecule-1 alpha subunit, human (h-LFA1)

G4731 Probe Set

p

i

c

5'-CTCTCTCTCGTCTCCAGGGCGTCTGGTGGG-PO4-3'

5'-CTGTCTCACACACGTCGGTGTGA-3'

5'-AAAAAGGAGACGAGAGAGTG-3'

2389

2390

2391

SEQ ID NO

for the remainder of the oligo sets on this list, the fret/target secondary sets are one of the following 11:

FRET/TARGET SETS

	FRET	TARGET
set 1	307-70-03	502-93-01
set 2	307-70-03	502-93-02
set 3	187-46-01	641-60-02
set 4	187-46-01	277-68-05
set 5	187-46-01	685-56-01
set 6	187-46-01	641-60-03
set 7	187-46-01	649-10-01
set 8	680-17-02	782-70-02
set 9	187-46-01	277-68-06
set 10	187-46-01	491-02-02
set 11	307-70-03	761-40-02

FRETS

307-70-03

187-46-01

680-17-02

5'-Fam-ATTTC(CY3)TCTCAGACT-NH2-3'

5'-Fam-CAAC (CY3)GCTTCCTCCG-3'

5'-Fam-CGCT (CY3)TCTCGCTCGC-3'

2392

2393

2394

TARGETS

502-93-01

502-93-02

641-60-02

277-68-05

685-56-01

641-60-03

649-10-01

782-70-02

277-68-06

491-02-02

5'-CAGTCTGAGATGAATGATACGAGAGAGT-NH2-3'

5'-CAGTCTGAGATGAATGAGACGAGAGAGT-NH2-3'

5'-CGGAGGAAGCAGTTGGAGCGGTGACGGT-NH2-3'

5'-CGGAGGAAGCAGTTGGTGGCCTCGTTAA-PO4-3'

5'-GCGGAAGAAGCGGTTGGTGATCTCGGCGG-NH2-3'

5'-CGGAAGAAGCAGTTGGAGCGGTGACGGT-NH2-3'

5'-CGGAAGAAGCAGTTGGTGGCCTCGTTAA-NH2-3'

5'-GCGAGAGAGACAGCGCAACCTGCCGTTTC-3'

5'-CGGAGGAAGCAGTTGTCGCGAAGATG-3'

5'-CGGAAGAAGCAGTTGGAGACGTGACTGTGG-NH2-3'

2395

2396

2397

2398

2399

2400

2401

2402

2403

2404



761-40-02

Cell Lysate Kits

adipocyte lipid binding protein, mouse (m-aP2)
C289 Probe Set

i

p

a

a

a

p

p

a

a

p

a

a

p

p

a

a

G392 Probe Set

p

i

rev-ErbA, mouse (m-revErbA)

C155 Probe Set

p

i

Camitine palmitoyltransferase, mouse (m-CPT-1)

T352 Probe Set

p

i

C851 Probe Set

p

i

Camitine palmitoyltransferase, human (h-CPT-1)

5'-GGAGTGAGACAGCGAAAGACTGCCGGTTCT-3'

2405

FRET/TARGET SET 1

5'-CCGCCATCTAGGGTTATGATGCTA-3'

2406

5'-CTCTCTCGTCTCCTTCACCTTCCTGTCG-NH2-3'

2407

3'-PO4-AGCAGAGGAAAGTGGAAAGGACAGC-5'

2408

3'-NH2-AGCAGAGGAAAGTGGAAAGGACAGC-5'

2409

3'-PO4-AGAGCAGAGGAAAGTGGAAAGGACAGC-5'

2410

5'-AACGAGGCGCACCTTCACCTTCCTGTCG-NH2-3'

2411

5'-AACGAGGCGCACCTTCACCTTCCTGTCG-Biotin-3'

2412

3'-PO4-CCGCGTGGAAAGTGGAAAGGACAGC-5'

2413

3'-PO4-CTCCGCTGGAAAGTGGAAAGGACAGC-5'

2414

5'-CATCTTCGCGGACTTCACCTTCCTGTCG-NH2

2415

3'-PO4-GCCTGAAGTGGAAAGGACAGC-5'

2416

3'-PO4-GCGCCTGAAGTGGAAAGGACAGC-5'

2417

5'CTTGCTCCCGTGCCTTCACCTTCCTGTCG-NH2

2418

5'CTTGCTCCCGTGCCTTCACCTTCCTGTCG-Biotin

2419

3'-PO4-GGGCACGAAAGTGGAAAGGACAGC-5'

2420

3'-PO4-AGGGGCACGAAAGTGGAAAGGACAGC-5'

2421

FRET/TARGET SET 1

5'-CTCTCTCGTCTCCACATTCACCACCAG-NH2-3'

2422

5'-TTGTGTAAGTCACGCGCTTTCATAAT-3'

2423

FRET/TARGET SET 4

5'-AACGAGGCGCACGAGCAGGGTAATGAATCT-NH2-3'

2424

5'-CCACTCTCTGAAGGCTCCGCAGTC-3'

2425

FRET/TARGET SET 2

5'-CTCTCTCGTCTCAATGCCTGTCGCC-NH2-3'

2426

5'-GCTTCAGGGTTTGTCGGAAAGAAAGAAC-3'

2427

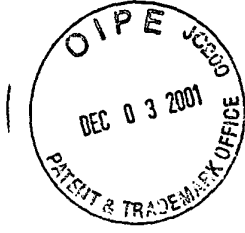
FRET/TARGET SET 2

5'-CTCTCTCGTCTCGTTTGGGGCGGATACAT-NH2-3'

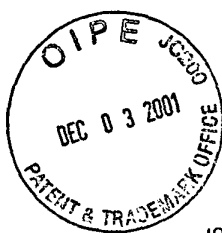
2428

5'-CGGCTTGATCTCTTCACGGTCCAC-3'

2429



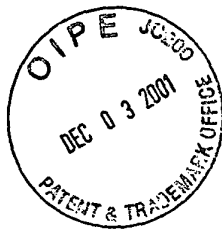
U744 Probe set	FRET/TARGET SET 2	2430
p	5'-CTCTCTCGTCTCAACTTCAATACCACTGTAATCT-NH2-3'	2431
i	5'-CTCACGTAATTTGTAGCCACCAGGAGTTTC-3'	2432
a	3'-NH2-GCAGAGTTGAAGTTTATGGTGACATTAGA-5'	2433
s	5'-TGGTCCAAAGACCGACAGCAAAATCTTGAG-3'	
A456 Probe Set	FRET/TARGET SET 10	2434
p	5'-CAGTCACGTCTCTTCAGGGAGTAGCGCA-NH2-3'	2435
i	5'-CCCGTGGTAGGAGAGCAGCACTA-3'	2436
a	3'-NH2-GCAGAGAAGTCCCTCATCGCGT-5'	
C759 Probe Set	FRET/TARGET SET 2	2437
p	5'-CTCTCTCGTCTCGCCACCAGGATT-NH2	2438
i	5'-CTCCACCAGTCGCTCAGCTAATTTGTAA-3'	2439
a	5'-AATCCTGGTGGCGAGACG-B-3'	2440
s	5'-TTAACTTCAAATACCACTGTAACTTTGGTCCAAGACCG-3'	
G329 Probe Set	FRET/TARGET SET 4	2441
p	5'-ACCGAGGGCGACCAATTATTCCTAACG-b-3'	2442
i	5'-GCCGTTTCCAGAGTCCGATTGATTTTGA-3'	2443
a	3'-(biotin)-GCGGTGGTTAATAAGGATTGC-5'	
C1763 Probe Set	FRET/TARGET SET 9	2444
p	5'-CATCTTCGGGAGACATTTCTTGATGATTCCTT-3'	2445
i	5'-AAAGGTGTCTGGGCTCGTGCT-3'	2446
a	3'-(biotin)-GCCTCTGTAAAGAACTACTAAGGAA-5'	
Phosphatidylinositol-3-phosphate p110 _ human (h-PI3Kp110_)		
G1045 Probe Set (FV Arm)	FRET/TARGET SET 4	2447
p	5'-AACGAGGGCGACCAGTTTCCCTCTGTG-NH2-3'	2448
i	5'-GACCAGCCCTGACATGAACTTTAC-3'	2449
a	3'-NH2-CGCGTGTGTCAAAAGGAGACAC-5'	
C1521 Probe Set	FRET/TARGET SET 2	2450
p	5'-CTCTCTCGTCTCGGGAGGGTAATAAAGG-NH2-3'	2451
i	5'-GCTGCCCTTTCAATAATCTTATCGAAC-3'	2452
a	3'-NH2-AGCAGAGCCCTCCCATTTATTATCC-5'	
C2667 Probe Set	FRET/TARGET SET 2	2453
p	5'-CTCTCTCGTCTCGTTGTATTTAAGCCAG-NH2-3'	2454
i	5'-CGGTCCAGGTCTATCCCCAGAC-3'	



a		3'NH2-AGCAGAGCAACATAAGAAATTCGGTC-5'	2455
G537 Probe Set			
p	FRET/TARGET SET 2		
i	5'-CTCTCTCGTCTCCTCTGGTGGATATGTTG-NH2-3'	2456	
a	5'-CTAAGTTTTTCAGGGATGGATGGTTCATGC-3'	2457	
	3'NH2-AGCAGAGGAGACCCACCTATACAAAC-5'	2458	
T3192 Probe Set			
p	FRET/TARGET SET 2		
i	5'-CTCTCTCGTCTCAACTGTGTGGGC-NH2-3'	2459	
a	5'-TTAAGATCTGTAGTCTTTCCGAAC-3'	2460	
	3'NH2-AGCAGAGTTCACACACCCCG-5'	2461	
Cartilage-derived morphogenic protein 1, human (h-CDMP1)			
A831 Probe Set			
p	FRET/TARGET SET 6		
i	5'-CCGTCACGCCCTCCTGTTGCCCTCCC-(biotin)-3'	2462	
a	5'-AGCCTCCAACTTCACGCTGT-3'	2463	
	5'-GGGAGGCAACAGAGGCG-(biotin)-3'	2464	
A1691 Probe Set			
p	FRET/TARGET SET 5		
i	5'-CCGCCGAGATCACTGAAGAGGATGCTGATGG-(biotin)-3'	2465	
a	5'-ACACCACGTTGTGGCAGAGTCAAG-3'	2466	
	5'-CCATCAGCATCCTCTTCAGTGATCTCGG-(biotin)-3'	2467	
b-actin, rat (r-bACT)			
C1671 Probe Set (longer)			
p	FRET/TARGET SET 6		
i	5'-CCGTCACGCCCTCGCCTTAGGGTTCA-NH2-3'	2468	
a	5'-TCTGGGTCACTCTTTTCACGGTTGA-3'	2469	
s	3'-GCGGAGCGGAATCCCAAGT-5'	2470	
	5'-GAGGGGCTCGGTGAGC-3'	2471	
Bile Salt port Pump, rat (r-BSEP)			
p	FRET/TARGET SET 5		
p	5'-CCGCCGAGATCAGGATTCCTTGCCCTTC-(biotin)-3'	2472	
i	5'-CCGCCGAGATCAGGATTCCTTGCCCTTC-NH3-3'	2473	
a	5'-TTACACACACGCTTTCTCGGTATCTCC-3'	2474	
	3'-(biotin)-CTAGTGCTCAAGAACGGAAAG-5'	2475	
G1288 Probe Set			
p	FRET/TARGET SET 2		
i	5'-CTCTCTCGTCTCCAGAGGCCAGT-(biotin)-3'	2476	
a	5'-TTCTTCATCTAGGACAAAGTGTGGAACCATAA-3'	2477	
	5'-ACTGGCCTTCTGGGAGACG-(biotin)-3'	2478	



A790 Probe Set	FRET/TARGET SET 6	2479
p	5'-CCGTCACGCCTCTTTCTCCTCCT-(biotin)-3'	2480
i	5'-CCCAATTTCCATTCTCATATTCTCGGAAGTAAATC-3'	2481
a	5'-AGGAGAAATGAGGAAAGAGGCG-(biotin)-3'	
Nitric Oxide Synthase 2A, human (h-iNOS2)		
A3418 Probe Set	FRET/TARGET SET 6	2482
p	5'-CCGTCACGCCTCTGTCTTTCTTCGC-(biotin)-3'	2483
i	5'-GCTGCACCGCCACCC-3'	2484
a	5'-GCGAAGAAAGACAGAGGCG-(biotin)-3'	
Neutral Carboxy Ester Hydrolase, human (h-NCEH)		
A1221 Probe Set	FRET/TARGET SET 7	2485
p	5'-AACGAGGCGCACTCTTCTTATTCTCTG-B-3'	2486
p	5'-AACGAGGCGCACTCTTCTTATTCTCTG-NH2-3'	2487
i	5'-GTCTCAAAGTCCACCACAGTCTC-3'	2488
s	5'-CAGGAGAAATAAGAGAGTGCGC-(biotin)-3'	
A1221 Probe Set	FRET/TARGET SET 6	2489
p	5'-CCGTCACGCCTCTCTTCTTATTCTCC-3'	2490
p	5'-CCGTCACGCCTCTCTTCTTATTCTCC-NH2-3'	2491
i	5'-GTCTCAAAGTCCACCACAGTCTC-3'	2492
a	3'-GCGGAGAGAGAAATAAGAGG-5'	2493
s	5'-TGGGATGGGTCTCTGGGC-3'	
C1309. Probe Set	FRET/TARGET SET 8	2494
p	5'-GAACGCGCAGGTTTGGCACTCTTGGCATT-NH2-3'	2495
i	5'-CAGGTAGGCGTAGGTCTTGA-3'	2496
a	3'-NH2-CGTCCAAACCGTGAGAACCGTAA-5'	2497
s	5'-GGCTCTGTGCTGGGCTA-NH2-3'	
Peroxisomal Proliferation Activator Protein Receptor alpha, human (h-PPAR_)		
G1480 Probe Set	FRET/TARGET SET 6	2498
p	5'-CCGTCACGCCTCCCGACTCCGTCT-(biotin)-3'	2499
i	5'-CGGGTGCAGCGCAGCATT-3'	2500
a	5'-AGACGGAGTCGGGAGGCG-(biotin)-3'	
A1044 Probe Set	FRET/TARGET SET 6	2501
p	5'-CCGTCACGCCTCTGTCACTTGATCGTTCT-(biotin)-3'	2502
i	5'-TGGCCTCATAAACTCCGTATTTAGCAAG-3'	2503
a	5'-AGAACGATCAAGTGACAGAGGCG-(biotin)-3'	



i 5'-TGCCCATTAGTCCAAACAAAGGAATCTGTA-3' 2526
a 3'-GCGGAGAAATACGGAACAACT-5' 2527
s 5'-GAGATCTGACCATGCCCATAAAGAGCC-NH2-3' 2528

C752 Probe Set
p 5'-AACGAGGCGCACCTGGCAAACTTGT-NH2-3' 2529
i 5'-CCTTTCTGTCTTTGGAGACTTGCATCA-3' 2530
a 3'-NH2-CGCGTGCGACCGTTTGAACA-5' 2531
s 5'-ACAACTCCATCAACACTGTGCTTTGCTG-NH2-3' 2532

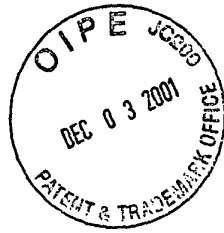
Hepatic Lipase, human (h-LIPC)
A830 Probe Set
p 5'-AACGAGGCGCACCTAGGAAGTGGA-NH2-3' 2533
i 5'-GTGCTGGGCAATATGTCTGTAGAGCG-3' 2534
a 3'-NH2-CGCGTGAGATCCTTCACCGT-5' 2535
s 5'-GCCAGGCTGGAAGGAGC-NH2-3' 2536

C1154 Probe Set
p 5'-CCGCCGAGATCACCGTCTCAGTTTGGT-NH2-3' 2537
i 5'-CGAGTAGTGACATGGTAAAGTTGTTGTATTGGCT-3' 2538
a 3'-NH2-CTCTAGTGGCAGAGTCAAAACCA-5' 2539

Hepatic Lipase, rat (r-LIPC)
G357 Probe Set
p 5'-CCGCCGAGATCACCCAGTTCACGGGT-NH2-3' 2540
i 5'-GGGAGATCCAGTCCACTAATCCA-3' 2541
a 3'-NH2-TCTAGTGGTGCAAGTGCCCAA-5' 2542
s 5'-GGGACTGTCGGGACTTCAGG-NH2-3' 2543

C1167 Probe Set
p 5'-GAACGGCAGGTTTGGGGAATTTCTTTATTTCT-NH2-3' 2544
i 5'-ATTCTTCGCCCAGGGTGATG-3' 2545
a 3'-NH2-GTCCAAACCCCTTAAAGAAATAAAGAA-5' 2546
s 5'-CTTTTGTCCCCAGCAGTGT-NH2-3' 2547

Metabotropic Glutamate Receptor 2, rat (r-mGluR2)
C1403 Probe Set
p 5'-AACGAGGCGCACGGTGTGGGA-NH2-3' 2548
i 5'-GCCTCATAGCATCGCAGAGGTGT-3' 2549
a 3'-NH2-CGCGTGCCACCACACCCCT-5' 2550
s 5'-CAGAGGGCACGGTGCATGTTGT-NH2-3' 2551



G-protein coupled receptor 2, rat (r-ETBR-LP2)

A1629 Probe set

P
I
a
s

FRET/TARGET SET 8
5'-GAACGGCAGGTTTGTACAGCAGCCGC-NH2-3'
5'-GAGAGGCCAAAGTGAGACCATGTGAAAGAAA-3'
3'-NH2-CGTCCAAACAGTCGTCTGGCG-5'
5'-CATGGATCGGCATGGCCCC-NH2-3'

2552
2553
2554
2555

I kappa b alpha, human (h-MAD3)

C542 Probe Set

P
I
a

FRET/TARGET SET 7
5'-AACGAGCGCACGGTGTAGGGGG-(biotin)-3'
5'-GCCCTGCTCACAGGCAAT-3'
5'-CCCCCTACACCGTGCGC-(biotin)-3'

2556
2557
2558

C363 Probe Set

P
I
A

FRET/TARGET SET 6
5'-CCGTACGCCCTCCCTCATCCTCACT-(biotin)-3'
5'-CACCTGGCGGATCACCTCCATGT
5'-GAAAAGGCACTGACGAGGCG-(biotin)-3'

2559
2560
2561

G953 Probe Set

P
I
A

FRET/TARGET SET 6
5'-CCGTACGCCCTCCCTCATCCTCACT-(biotin)-3'
5'-ACTCTGACTCTGTGTCATAGCTCTT
5'-AGTGAGGATGAGGGAGGCG-(biotin)-3'

2562
2563
2564

C923 Probe Set

P
I
A
S

FRET/TARGET SET 7
5'-AACGAGCGCACGGTTTCTAGTGTCANH2-3'
5'-CTCACTCTCTGGCAGCATCTGAAT-3'
3'-NH2-CGCGTGCCAAAGATCACAGT-5'
5'-GCTGGCCCCAGCTGC-NH2-3'

2565
2566
2567
2568

Lecithin cholesterol acyltransferase, human (h-LCAT)

C821 Probe Set (truncated Probe Design)

P
I
a
s

FRET/TARGET SET 5
5'-CCGCCGAGATCACGGTTATGCGCTG-NH2-3'
5'-CCAGGGGGAGGTGGTC-3'
3'-NH2-TCTAGTGCCCAATACGCGACG-5'
5'-CTCCTCTTTCAGCTTGATGCTGG-NH2-3'

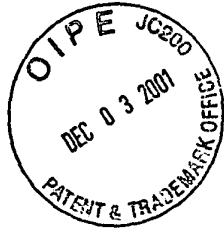
2569
2570
2571
2572

C827 Probe Design

P
I
a

FRET/TARGET SET 8
5'-GAACGGCAGGTTTGGGTGGTGTATGCG-NH2-3'
5'-AGAGGGAAACATCCAGGGGGAG-3'
3'-NH2-CGTCCAAACCCACCACCAATACGCG-5'

2573
2574
2575



C1217 Probe Design		FRET/TARGET SET 5	2576
p		5'-CCGCCGAGATCACGAGATGCTGTATCCC-NH2-3'	
i		5'-GGTCAGGTTGCTGAAGACCATGTTG-3'	2577
a		3'-NH2-TCTAGTGCTCTACGACATAGGG-5'	2578
Apolipoprotein A-1, human (h-ApoA1)			
A177 Probe Set		FRET/TARGET SET 6	2579
p		5'-CCGTACGGCTCTGAGCACATCCACG-NH2-3'	
i		5'-ACATAGTCTCTGCCGCTGTCTTA-3'	2580
a		3'-NH2-GCGGAGACTCGTGTAGGTGC-5'	2581
s		5'-TACACAGTGGCCAGGTCCTT-NH2-3'	2582
A227 Probe Set (titrate length of 2'-O-Me in Invader)		FRET/TARGET SET 8	2583
p		5'-GAACGGCAGGTTTGCCAAAGGG-NH2-3'	
i		5'-GTCAAGGAGCTTAGGTTAGCTGTTTA-3'	2584
i		5'-GTCAAGGATCTTAGGTTAGCTGTTTA-3'	2585
i		5'-GTCCCAGTTGTCAGGATCTTAGGTTAGCTGTTTA-3'	2586
A		3'-NH2-GTCCAAACAGGGTCCGCC-5'	2587
s		5'-AGCCTTCAAACCTGGACACATAGTCTC-NH2-3'	2588
G350 Probe Set		FRET/TARGET SET 5	2589
p		5'-CCGCCGAGATCACTTCTGTCTCCTT-NH2-3'	
i		5'-CTCCTGCCCTCAGGCCG-3'	2590
a		3'-NH2-TCTAGTGGAGACAGAGGAA-5'	2591
s		5'-TTCCAGGTTATCCCAGAACTCC-NH2-3'	2592
G233 Probe Set		FRET/TARGET SET 11	2593
p		5'-AGAACGGCAGTCTTCTGTTTCCCAAG-NH2-3'	
i		5'-CCAGTTGTCAAGGAGCTTAGGTTAGT-3'	2594
a		3'-NH2-CGTCAGAAAGACAAAAGGGTCC-5'	2595
s		5'-CGGAGCCTTCAAACCTGGGACACATAGT-NH2-3'	2596
Metabotropic Glutamate Receptor 1, rat (r-mGluR1)			
T934 Probe Set		FRET/TARGET SET 11	2597
p		5'-AGAACGGCAGTCTTTAGAATAGCGATCTGT-NH2-3'	
i		5'-CACTCAGGCTATGCTGTGGCT-3'	2598
a		3'-NH2-GTCAGAAATCTTATCCGCTAGACA-5'	2599
s		5'-GGGATGTGGAACAGCTGGGAGAAGATTCT-NH2-3'	2600
Ubiquitin, human (h-UBIQ)			



G119 Probe Set (MO4 Arm)	p l a	FRET/TARGET SET 6	2601
		5'-CCGTACGCCTCTTTACATTTTCTATCGTATCCG-(biotin)-3'	2602
		5'-CCTTCCTTATCCTGGATCTTGGA-3'	2603
		3'-(biotin)-GCGGAGGAAATGTAAAAGATAGCATAGGC-5'	
G119 Probe Set	p l a	FRET/TARGET SET 5	2604
		5'-CGCCGAGATCACCTTTACATTTTCTATCGTATCCG-(biotin)-3'	2605
		5'-CCTTCCTTATCCTGGATCTTGGA-3'	2606
		3'-(biotin)-CTAGTGAAATGTAAAAGATAGCATAGGC-5'	
G131 Probe Set	p l a	FRET/TARGET SET 9	2607
		5'-CATCTTCGGGACTGGATCTTGGCC-(biotin)-3'	2608
		5'-GCTGATCAGGAGGAATTCCTTCTTATCT-3'	2609
		3'-(biotin)-GCCTGACCTAGAACCCGG-5'	
Scanned G119 region (ELISA format (No Arrestors))	p p p p p l l l l l l l	5'-CTCTCTCGTCTCTTACATTTTCTATCGTATCCGA-NH2-3'	2610
		5'-CTCTCTCGTCTCTTACATTTTCTATCGTATCCG-NH2-3'	2611
		5'-CTCTCTCGTCTCTTACATTTTCTATCGTATCCG-NH2-3'	2612
		5'-CTCTCTCGTCTCTTACATTTTCTATCGTATC-NH2-3'	2613
		5'-CTCTCTCGTCTCGCCTTACATTTTCTATCG-NH2-3'	2614
		5'-GGAATTCCTTCCCTTATCCTGGATCTTGA-3'	2615
		5'-GGAAATTCCTTCCCTTATCCTGGATCTTGGC-3'	2616
		5'-CCTTCCTTATCCTGGATCTTGGA-3'	2617
		5'-TTCCCTTATCCTGGATCTTGCCA-3'	2618
		5'-TCCCTTATCCTGGATCTTGGCCTA-3'	2619
Ubiquitin, mouse (m-UBIQ)	p l a	FRET/TARGET SET 7	2620
		5'-CCGTACGCCTCCCTTCTGGATGTTGA-(biotin)-3'	2621
		5'-CCAGGTGCAGGGTTGACTA-3'	2622
		3'-(biotin)-GCGGAGGGAAGACCTACAACAT-5'	
G294 Probe Set	p l a	FRET/TARGET SET 5	2623
		5'-CGCCGAGATCACCCCTTCTGGATGTTGA-(biotin)-3'	2624
		5'-CCAGGTGCAGGGTTGACTA-3'	2625
		3'-(biotin)-CTAGTGGGAAGACCTACAACAT-5'	
G294 Probe Set	p l	FRET/TARGET SET 6	2626
		5'-CCGTACGCCTCCCTTCTGGATGTTGTAAT-NH2-3'	2627



2628

3'-NH2-GCGGAGGGAAGACCTACAACATTA-5'

a

G294 Probe Set

p

i

a

FRET/TARGET SET 6

5'-CCGTCACGCCCTCCCTTCTGGATGTTGTAATC-NH2-3'

5'-CCAGGTGCAGGGTTGACTA-3'

3'-NH2-GCGGAGGGAAGACCTACAACATTAG-3'

2629

2630

2631

T514 Probe Set

p

i

a

FRET/TARGET SET 7

5'-AACGAGGCGCACATGTTGTAATCAGAGAGGG-NH2-3'

5'-TGCAGGGTTGACTCTTTCTGGA-3'

3'-NH2-GCGGTGTACAACATTAGTCTCTCCC-5'

2632

2633

2634

G750 Probe Set

p

i

a

FRET/TARGET SET 9

5'-CATCTTCGCGGACCTTCTGGATGTTGTA-NH2-3'

5'-GGACCAAGTGCAGGGTTGACTT-3'

3'-NH2-GCCTGGAAGACCTACAACAT-5'

2635

2636

2637

G185 Probe Set

p

i

a

FRET/TARGET SET 9

5'-CATCTTCGCGGACTTCACGTTCTCGATGG-NH2-3'

5'-CCCTCTTTATCCTGGATCTTGGCA-3'

3'-NH2-GCGCCTGAAGTGCAAGAGGCTACC-5'

2638

2639

2640



² **FIGURE 48**

12		
1	8	C
2	5	U
3	5	U
4	2	U
5	1	U
6	2	C
7	7	G
8	7	A
9	1	U
10	1	C